

200048

# STIC EIC 2100 Search Request Form

Today's Date:

8/29/06

What date would you like to use to limit the search?

Priority Date:

7/14/2003

Other:

Name Andrew Chou

AU 2192

Examiner # 81739

Room # 5B19

Phone x 6829

Serial #

40300907 10 613 919

Format for Search Results (Circle One):

PAPER

DISK

EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI

Other FAST

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Is this request for a BOARD of APPEALS case? (Circle One) YES NO

STIC Searcher

Ruth Spink

Phone

2-3524

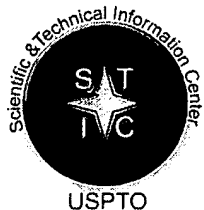
Date picked up

8/29/06

Date Completed

8/29/06





# ***STIC Search Report***

## ***EIC 2100***

**STIC Database Tracking Number** 2006/0000007

**TO: Andrew Chou**  
**Location: RND 5B19**  
**Art Unit: 2192**  
**Wednesday, August 30, 2006**

**Case Serial Number:** <sup>10618919</sup>  
~~10/300007~~

**From: Ruth E. Spink**  
**Location: EIC 2100**  
**RND-4B31**  
**Phone: 23524**

**Ruth.spink@uspto.gov**

### **Search Notes**

Andrew- Attached is the foreign patent and NPL search for the above referenced case. I flagged the references that I think are the best. Be sure to contact me if you wish to refocus this search.

Ruth

## ABSTRACT OF THE INVENTION

A visual design surface that identifies configuration errors to a user in an inconspicuous manner is disclosed. Shapes representing software artifacts are arranged on the design surface. Each shape may have one or more configuration parameter. The parameters associated with each shape are analyzed to locate configuration errors. When an error is identified, an error icon is placed next to the shape. The user may select the icon and be presented with one or more proposed solutions.

## CLAIMS

We claim:

① A method of alerting a user to configuration errors of shapes representing software artifacts and displayed on a visual design surface, the method comprising:

(a) displaying an icon next to a shape to represent at least one configuration error associated with the shape; and

(b) in response to a user selecting the icon, displaying at least one proposed solution to a configuration error.

2. The method of claim 1, further including:

(c) comparing shape configuration parameters of the shape to configuration parameter rules.

3. The method of claim 2, wherein the configuration parameter rules are selected based on a context in which the shape is being used.

4. The method of claim 2, wherein (c) is performed after (a) and further including:

(d) removing the icon when the configuration error no longer exists.

5. The method of claim 2, wherein (c) is repeated periodically.

6. The method of claim 5, wherein (c) is repeated when at least one configuration parameter of the shape changes.

7. The method of claim 6, wherein (c) is repeated when at least one configuration parameter of a shape other than the shape in (a) changes.

Set	Items	Description
S1	124661	GUI OR GUIS OR UI OR USER()INTERFACE? OR WIMP OR WINDOW()I- CON()MENU()POINTER()INTERFACE? ?
S2	49363	(DESIGN? OR DRAW OR DRAWING OR PLAN OR PLANNING) (3W) (SURF- ACE? ? OR DISPLAY? ? OR INTERFACE? ?)
S3	25805	CAD OR COMPUTER()AIDED()DESIGN
S4	5780183	APPLICATION? ? OR PROGRAM? ? OR SOFTWARE OR API OR ROUTINE? ? OR AGENT? ? OR FUNCTION? ? OR MODULE? ? OR WIZARD? ? OR TO- OL? ?
S5	122007	S4 (3N) (REPRESENT? OR STAND?() (FOR OR AS) OR SYMBOL? OR S- IGNIFY OR SIGNIFYING OR SIGNIFIE? ? OR MODEL? )
S6	939140	ERROR? ? OR FAULT? ? OR FLAW OR FLAWS OR FLAWED OR FAILURE? ? OR FAILED OR FAIL OR FAILING
S7	1969146	ICON? ? OR BUTTON? ? OR IMAGE? ? OR SYMBOL? ? OR SIGN? ?
S8	81200	S6 (10N) S7
S9	23	(S1 OR S2 OR S3) (30N) S5 (30N) S8
S10	23	IDPAT (sorted in duplicate/non-duplicate order)
S11	21	IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2006/ 200634 (c) 2006 European Patent Office		
File 349:PCT FULLTEXT 1979-2006/UB=20060824UT=20060817 (c)		
File 350:Derwent WPIX 1963-2006/UD=200654 (c) 2006 The Thomson Corporation		

11/5,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2006 The Thomson Corporation. All rts. reserv.

0014763888 - Drawing available  
WPI ACC NO: 2005-111546/  
XRPX Acc No: N2005-096406

**Method of alerting user to configure errors of software artifacts and displayed on visual design surface, involves displaying proposed solution for configuration error, in response to icon selected by user**

Patent Assignee: MICROSOFT CORP (MICT)  
Inventor: CORNELIUS A; FONG D; MERCER J; STALLO G

**Patent Family** (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20050015639	A1	20050120	US 2003618919	A	20030714	200512 B

Priority Applications (no., kind, date): US 2003618919 A 20030714

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20050015639	A1	EN	11	6	

#### Alerting Abstract US A1

NOVELTY - An icon representing configuration error of software artifact, is displayed next to the artifact. A proposed solution for configuration error, is displayed in response to an icon selected by user.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 1.method of indicating configuration errors of elements displayed on visual display surface; and
- 2.computer readable medium storing configuration errors indication program.

USE - For alerting user to configure errors of software artifacts and displayed on visual design surface.

ADVANTAGE - The configuration errors can be identified to user inconspicuous manner, thereby minimizing distraction and interruption in design workflow.

DESCRIPTION OF DRAWINGS - The figure shows a computer screen displaying proposed solution of configuration error.

**Title Terms/Index Terms/Additional Words:** METHOD; ALERT; USER; CONFIGURATION; ERROR; SOFTWARE; ARTIFACT; DISPLAY; VISUAL; DESIGN; SURFACE; PROPOSED; SOLUTION; RESPOND; SELECT

#### Class Codes

International Classification (Main): G06F-011/00  
(Additional/Secondary): G06F-015/173, G06F-003/00  
US Classification, Issued: 714001000, 714025000, 714047000, 714048000, 709223000, 709224000, 710015000, 710008000

File Segment: EPI;  
DWPI Class: T01  
Manual Codes (EPI/S-X): T01-F05B2; T01-G05A; T01-S03

#### Original Publication Data by Authority

#### Original Abstracts:

A visual design surface that identifies configuration errors to a user in an inconspicuous manner is disclosed. Shapes representing software artifacts are arranged on the design surface. Each shape may have one

or more configuration parameter. The parameters associated with each shape are analyzed to locate configuration **errors**. When an **error** is identified, an **error icon** is placed next to the shape. The user may select the icon and be presented...

**Claims:**

We claim:     b 1 /b . A method of alerting a user to configuration errors of shapes **representing software** artifacts and displayed on a visual **design surface**, the method comprising: (a) displaying an **icon** next to a shape to represent at least one configuration **error** associated with the shape; and (b) in response to a user selecting the **icon**, displaying at least one proposed solution to a configuration **error**.

11/5,K/6 (Item 6 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01672969

**Problem solving by a CAD program**  
**Problemlosung fur ein CAD Programm**  
**Resolution de probleme par un programme CAO**

PATENT ASSIGNEE:

Autodesk, Inc., (2606600), 111 McInnis Parkway, San Rafael, California  
94903, (US), (Applicant designated States: all)

INVENTOR:

Meisenecker, Robert, Fliegenstrasse 8, D-80337 Munchen, (DE)

LEGAL REPRESENTATIVE:

Dendorfer, Claus, Dr. (85562), Wachtershauser & Hartz Weinstrasse 8,  
80333 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1376476 A1 040102 (Basic)

APPLICATION (CC, No, Date): EP 2002013531 020618;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G06T-017/40

ABSTRACT EP 1376476 A1

In a method for solving problems that are related to geometrical properties of objects processed by a CAD program, a possible problem related to a geometrical property of at least one object is identified, and an indicator symbol is displayed in a drawing window of the CAD program. The indicator symbol is shown in graphical association with at least one entity processed by the CAD program, the entity being related to the identified possible problem. A user action related to the indicator symbol is received, and problem solving assistance is provided to the user in response to the user action. A computer program product and an apparatus comprise corresponding features. The invention provides a way for solving problems related to geometrical properties of objects processed by a CAD program that minimizes workflow disruption even in cases where the problem cannot be solved in an entirely automatic way.

ABSTRACT WORD COUNT: 148

NOTE:

Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 040102 A1 Published application with search report

Examination: 040901 A1 Date of request for examination: 20040701

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200401	384
SPEC A	(English)	200401	2923
Total word count - document A			3307
Total word count - document B			0
Total word count - documents A + B			3307

...SPECIFICATION is impossible. The CAD program 10 is thus not able to create a proper dimensioning **symbol** to be shown in the drawing window 12. A dimension **error symbol** 24, namely a small square with a diagonal line, is shown instead. In the prior...

...Fig. 1 for a CAD program 10 according to the present invention. Again, the dimension **error symbol** 24 is displayed since no proper dimensioning is possible. However, the CAD program 10 identifies the problem related to the invalid cutplane setting in the wall object...

...or a red cross on a color display) is shown on top of the dimension



**error symbol** . The indicator **symbol 26** signifies that the **CAD program 10** is able to provide problem resolution assistance with respect to the present problem. Furthermore...

...is shown, which provides a clear graphical association between the dimensioning (represented by the dimension **error symbol 24**), which is affected by the problem, and the wall (represented by the rectangle 20...

11/5,K/7 (Item 7 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01397083

**Method and apparatus for integrated network management**  
**Verfahren und Vorrichtung zum Management von integrierten Netzwerken**  
**Methode et dispositif pour la gestion de reseaux integres**

PATENT ASSIGNEE:

Aprisma Management Technologies, Inc., (3854400), 121 Technology Drive,  
Durham, NH 03824, (US), (Applicant designated States: all)

INVENTOR:

Onge, David St., 110A Chestnut Street, Pepperell, MA 01463, (US)  
Metha, Ruchika, 18 Cummings Road, Monmouth Junction, NJ 08852, (US)  
Lewis, Lundy, 480 Greenville Road, Mason, NH 03048, (US)

LEGAL REPRESENTATIVE:

Driver, Virginia Rozanne et al (58902), Page White & Farrer 54 Doughty  
Street, London WC1N 2LS, (GB)

PATENT (CC, No, Kind, Date): EP 1182821 A2 020227 (Basic)  
EP 1182821 A3 020313

APPLICATION (CC, No, Date): EP 2001204478 970513;

PRIORITY (CC, No, Date): US 649278 960517

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 898822 (EP 97924689)

INTERNATIONAL PATENT CLASS (V7): H04L-012/24

ABSTRACT EP 1182821 A3

A computer system includes a gateway which provides integration between a network management platform and a system management platform. Such a gateway facilitates sharing of network management and system management events and alarms, as well as sharing of network management and system management display views. From the shared events and alarms, each platform may correlate such shared events and alarms with other data available to the platform. Thus, each platform has the advantage of using its own data in combination with data from the other platform to more effectively perform its functionality.

ABSTRACT WORD COUNT: 93

NOTE:

Figure number on first page: 4

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020227 A2 Published application without search report

Search Report: 020313 A3 Separate publication of the search report

Withdrawal: 030611 A2 Date application deemed withdrawn: 20020914

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200209	1270
SPEC A	(English)	200209	7217
Total word count - document A			8487
Total word count - document B			0
Total word count - documents A + B			8487

...SPECIFICATION facility, and other features.

An example of the alarm log view provided by the SPECTROGRAPH **user interface** 28 is illustrated in Fig. 3. The alarm log view 33 may include an area...

...a particular alarm in the listing of current alarms to obtain more information. A multi- **function icon** 34 **representing** the network device having the **fault** is displayed in area 32, with one or more text fields 36 and 38 which...

...device for which an alarm is registered.

Alternatively, instead of or in combination with the **user interface** 28, information from the virtual network machine 26 may be provided directly to another computer...

11/5,K/8 (Item 8 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2006 European Patent Office. All rts. reserv.

00909512

**METHOD AND APPARATUS FOR INTEGRATED NETWORK MANAGEMENT AND SYSTEMS  
MANAGEMENT IN COMMUNICATIONS NETWORKS  
VERFAHREN UND VORRICHTUNG ZUR VERWALTUNG INTEGRIERTER NETZWERKE UND ZUR  
SYSTEMVERWALTUNG IN KOMMUNIKATIONSNETZWERKEN  
PROCEDE ET DISPOSITIF POUR GESTION DE RESEAU INTEGREE ET GESTION DES  
SYSTEMES DANS LES RESEAUX DE COMMUNICATION**

**PATENT ASSIGNEE:**

Aprisma Management Technologies, Inc., (3854400), 121 Technology Drive,  
Durham, NH 03824, (US), (Proprietor designated states: all)

**INVENTOR:**

LEWIS, Lundy, 480 Greenville Road, Mason, NH 03048, (US)  
ST. ONGE, David, 110A Chestnut Street, Pepperell, MA 01463, (US)  
MEHTA, Ruchika, 18 Cummings Road, Monmouth Junction, NJ 08852, (US)

**LEGAL REPRESENTATIVE:**

Driver, Virginia Rozanne et al (58902), Page White & Farrer 54 Doughty  
Street, London WC1N 2LS, (GB)

PATENT (CC, No, Kind, Date): EP 898822 A2 990303 (Basic)  
EP 898822 B1 020814  
WO 9744937 971127

APPLICATION (CC, No, Date): EP 97924689 970513; WO 97US8043 970513

PRIORITY (CC, No, Date): US 649278 960517

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

RELATED DIVISIONAL NUMBER(S) - PN (AN):

EP 1182821 (EP 2001204478)

INTERNATIONAL PATENT CLASS (V7): H04L-012/24

CITED PATENTS (EP B): EP 621716 A; EP 632617 A; WO 94/23514 A; WO 95/08794  
A

CITED PATENTS (WO A): A A A

**CITED REFERENCES (EP B):**

SCHLAERTH J P: "A CONCEPT FOR TACTICAL WIDE-AREA NETWORK HUB MANAGEMENT"  
PROCEEDINGS OF THE MILITARY COMMUNICATIONS CONFERENCE (MILCOM), LONG  
BRANCH, NJ., OCT. 2 - 5, 1994, vol. 2 OF 3, 2 October 1994, INSTITUTE  
OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 644-649, XP000505952;

**CITED REFERENCES (WO A):**

SCHLAERTH J P: "A CONCEPT FOR TACTICAL WIDE-AREA NETWORK HUB MANAGEMENT"  
PROCEEDINGS OF THE MILITARY COMMUNICATIONS CONFERENCE (MILCOM), LONG  
BRANCH, NJ., OCT. 2 - 5, 1994, vol. 2 OF 3, 2 October 1994, INSTITUTE  
OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 644-649, XP000505952;

**NOTE:**

No A-document published by EPO

**LEGAL STATUS (Type, Pub Date, Kind, Text):**

Examination: 010704 A2 Date of dispatch of the first examination  
report: 20010521

Application: 980318 A2 International application (Art. 158(1))

Lapse: 050525 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020814, BE 20020814, CH 20020814, LI  
20020814, DK 20021114, ES 20030228, FI  
20020814, GR 20020814, IE 20030513, LU  
20030513, NL 20020814, PT 20021129, SE  
20021114,

Lapse: 040922 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020814, BE 20020814, CH 20020814, LI  
20020814, DK 20021114, ES 20030228, GR  
20020814, IE 20030513, LU 20030513, NL  
20020814, PT 20021129,

Lapse: 040922 B1 Date of lapse of European Patent in a

contracting state (Country, date): AT  
20020814, BE 20020814, CH 20020814, LI  
20020814, DK 20021114, ES 20030228, GR  
20020814, IE 20030513, LU 20030513, NL  
20020814, PT 20021129,

Lapse: 040121 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020814, BE 20020814, CH 20020814, LI  
20020814, DK 20021114, ES 20030228, GR  
20020814, NL 20020814, PT 20021129,

Lapse: 031112 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020814, CH 20020814, LI 20020814, DK  
20021114, GR 20020814, NL 20020814, PT  
20021129,

Lapse: 030730 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020814, CH 20020814, LI 20020814, GR  
20020814, NL 20020814, PT 20021129,

Lapse: 030514 B1 Date of lapse of European Patent in a  
contracting state (Country, date): GR  
20020814, NL 20020814,

Grant: 020814 B1 Granted patent

Assignee: 020116 A2 Transfer of rights to new applicant: Aprisma  
Management Technologies, Inc. (3854400) 121  
Technology Drive Durham, NH 03824 US

Change: 020116 A2 Application number of divisional application  
(Article 76) changed: 20011129

Lapse: 030226 B1 Date of lapse of European Patent in a  
contracting state (Country, date): NL  
20020814,

Lapse: 030528 B1 Date of lapse of European Patent in a  
contracting state (Country, date): GR  
20020814, NL 20020814, PT 20021129,

Oppn None: 030806 B1 No opposition filed: 20030515

Lapse: 031126 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020814, BE 20020814, CH 20020814, LI  
20020814, DK 20021114, GR 20020814, NL  
20020814, PT 20021129,

Lapse: 040714 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020814, BE 20020814, CH 20020814, LI  
20020814, DK 20021114, ES 20030228, GR  
20020814, IE 20030513, NL 20020814, PT  
20021129,

Lapse: 050105 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020814, BE 20020814, CH 20020814, LI  
20020814, DK 20021114, ES 20030228, GR  
20020814, IE 20030513, LU 20030513, NL  
20020814, PT 20021129, SE 20021114,

Application: 990303 A2 Published application (A1with Search Report  
;A2without Search Report)

Examination: 990303 A2 Date of filing of request for examination:  
981214

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200233	1245
CLAIMS B	(German)	200233	1172
CLAIMS B	(French)	200233	1403
SPEC B	(English)	200233	7215
Total word count - document A			0
Total word count - document B			11035

Total word count - documents A + B 11035

...SPECIFICATION facility, and other features.

An example of the alarm log view provided by the SPECTROGRAPH **user interface** 28 is illustrated in Fig. 3. The alarm log view 33 may include an area...

...a particular alarm in the listing of current alarms to obtain more information. A multi- **function icon** 34 **representing** the network device having the **fault** is displayed in area 32, with one or more text fields 36 and 38 which...

...device for which an alarm is registered.

Alternatively, instead of or in combination with the **user interface** 28, information from the virtual network machine 26 may be provided directly to another computer...

11/5,K/9 (Item 9 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00806973

**METHOD AND APPARATUS FOR POLICY-BASED ALARM NOTIFICATION IN A DISTRIBUTED  
NETWORK MANAGEMENT ENVIRONMENT**

**VERFAHREN UND GERAT ZUR VERFAHRENSBASIERTER ALARMMELDUNG IN EINER  
VERTEILTEN NETZWERKVERWALTUNGsumgebung**

**PROCEDE ET APPAREIL POUR NOTIFICATION D'ALARME BASEE SUR DES STRATEGIES DE  
TYPES PREDETERMINEES DANS UN ENVIRONNEMENT DE GESTION DE RESEAU  
DISTRIBUE**

PATENT ASSIGNEE:

Aprisma Management Technologies, Inc., (3854400), 121 Technology Drive,  
Durham, NH 03824, (US), (Proprietor designated states: all)

INVENTOR:

POLIUQUIN, Lynn, R., 190 Mountain Road, Goffstown, NH 03054, (US)

ARROWSMITH, Russell, 8 Arbor Street, Merrimack, NH 03054, (US)

LEWIS, Lundy, 480 Greenville Road, Mason, NH 03048, (US)

TRACY, William, 60 Sleigh Road, Chelmsford, MA 01824, (US)

LEGAL REPRESENTATIVE:

Driver, Virginia Rozanne et al (58902), Page White & Farrer 54 Doughty  
Street, London WC1N 2LS, (GB)

PATENT (CC, No, Kind, Date): EP 818096 A1 980114 (Basic)

EP 818096 B1 020626

WO 9631035 961003

APPLICATION (CC, No, Date): EP 96909894 960329; WO 96US4332 960329

PRIORITY (CC, No, Date): US 412955 950329; US 558425 951116

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

INTERNATIONAL PATENT CLASS (V7): H04L-012/24

CITED PATENTS (WO A): US 3434165 A ; US 5299334 A ; US 4578833 A ; US  
5040546 A ; US 4506664 A ; US 1115794 A ; US 4738445 A ; US 5184363 A

CITED REFERENCES (EP B):

DATA COMMUNICATIONS, vol. 24, no. 1, 1 January 1995, pages 116-118,

XP000480825 JANDER M: "REAL DISTRIBUTED MANAGEMENT"

DATA COMMUNICATIONS, vol. 24, no. 1, 1 January 1995, page 119/120

XP000480826 JANDER M: "ROUNDING OUT THE ROSTER OF SNMP AGENTS"

PROCEEDINGS OF THE GLOBAL TELECOMMUNICATIONS CONFERENCE (GLOBECOM), SAN

FRANCISCO, NOV. 28 - DEC. 2, 1994, vol. 1 OF 3, 28 November 1994,

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 548-552,

XP000488606 KWANG-HUI LEE: "A DISTRIBUTED NETWORK MANAGEMENT SYSTEM"

PROCEEDINGS OF THE MILITARY COMMUNICATIONS CONFERENCE (MILCOM), LONG

BRANCH, NJ., OCT. 2 - 5, 1994, vol. 2 OF 3, 2 October 1994, INSTITUTE

OF ELECTRICAL AND ELECTRONICS ENGINEERS, pages 644-649, XP000505952

SCHLAERTH J P: "A CONCEPT FOR TACTICAL WIDE-AREA NETWORK HUB

MANAGEMENT";

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change: 001213 A1 Title of invention (German) changed: 20001024

Application: 961218 A International application (Art. 158(1))

Lapse: 040929 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020626, BE 20020626, CH 20020626, LI  
20020626, DK 20020926, ES 20021220, FI  
20020626, GR 20020626, NL 20020626, PT  
20020926, SE 20020926,

Lapse: 031126 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020626, BE 20020626, CH 20020626, LI  
20020626, DK 20020926, GR 20020626, NL  
20020626, PT 20020926, SE 20020926,

Lapse: 030730 B1 Date of lapse of European Patent in a

contracting state (Country, date): AT  
20020626, CH 20020626, LI 20020626, GR  
20020626, NL 20020626, PT 20020926, SE  
20020926,

Lapse: 030521 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020626, GR 20020626, NL 20020626, PT  
20020926, SE 20020926,

Lapse: 030305 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020626, NL 20020626, SE 20020926,

Lapse: 021204 B1 Date of lapse of European Patent in a  
contracting state (Country, date): SE  
20020926,

Assignee: 020116 A1 Transfer of rights to new applicant: Aprisma  
Management Technologies, Inc. (3854400) 121  
Technology Drive Durham, NH 03824 US

Change: 010606 A1 Title of invention (French) changed: 20010418  
Change: 010606 A1 Title of invention (English) changed: 20010418  
Change: 010606 A1 Title of invention (German) changed: 20010418  
Change: 001213 A1 Title of invention (English) changed: 20001024  
Change: 001213 A1 Title of invention (French) changed: 20001024  
Examination: 010613 A1 Date of dispatch of the first examination  
report: 20010427

Grant: 020626 B1 Granted patent

Lapse: 030226 B1 Date of lapse of European Patent in a  
contracting state (Country, date): NL  
20020626, SE 20020926,

Lapse: 030514 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020626, GR 20020626, NL 20020626, SE  
20020926,

Oppn None: 030618 B1 No opposition filed: 20030327

Lapse: 031112 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020626, CH 20020626, LI 20020626, DK  
20020926, GR 20020626, NL 20020626, PT  
20020926, SE 20020926,

Lapse: 040121 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
20020626, BE 20020626, CH 20020626, LI  
20020626, DK 20020926, ES 20021220, GR  
20020626, NL 20020626, PT 20020926, SE  
20020926,

Application: 980114 A1 Published application (A1with Search Report  
;A2without Search Report)

Examination: 980114 A1 Date of filing of request for examination:  
970919

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200226	908
CLAIMS B	(German)	200226	865
CLAIMS B	(French)	200226	989
SPEC B	(English)	200226	7113
Total word count - document A			0
Total word count - document B			9875
Total word count - documents A + B			9875

...SPECIFICATION sent shutting off the defective device, and the network  
administrator can be notified via the **user interface** .  
Spectrum(TM) 's associated SpectroGRAPH(TM) **user interface** provides  
a graphical view into the network models. An alarm log view 123, shown in  
...



...a particular alarm in the listing of current alarms to obtain more information. A multi- **function icon** 124 **representing** the network device having a **fault** is displayed in area 122, with one or more text fields 126 and 128 which...

11/5,K/12 (Item 12 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) . All rts. reserv.

01337760 \*\*Image available\*\*

**SYSTEM AND METHOD FOR FAULT CODE DRIVEN MAINTENANCE SYSTEM**  
**SYSTEME ET PROCEDE POUR SYSTEME D'ENTRETIEN COMMANDE PAR UN CODE DE PANNE**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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US (Nationality), (Designated only for: US)

Legal Representative:

RUGGIERO Charles NJ (agent), Ohlandt, Greeley, Ruggiero & Perle, L.L.P.,  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200620209 A2 20060223 (WO 0620209)

Application: WO 2005US25409 20050719 (PCT/WO US2005025409)

Priority Application: US 2004589165 20040719

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL  
PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU  
ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

International Patent Class (v8 + Attributes)

IPC + Level Value Position Status Version Action Source Office:

G06F-0011/00 A I F B 20060101 H US

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5961

English Abstract

A system (10, 10'), program instructions or method for maintaining a  
deployed product (20, 20') having at least one component, as well as  
training of the maintenance workers, is provided. The system (10, 10')  
has a microserver (30, 30'), a sensor and an electronic device (40, 40').  
The microserver (30, 30') is integral with the deployed product (20,  
20'). The sensor is in communication with the microserver (30, 30') and  
operably connected to the component for monitoring parameters of the  
component. The sensor communicates the parameters to the microserver (30,  
30'). The electronic device (40, 40') is in wireless communication with  
the microserver (30, 30') and remotely located from the microserver (30,  
30'). The electronic device (40, 40') receives fault code signals that  
are generated by the microserver (30, 30'). The fault code signals are  
representative of a fault code for the component based upon the  
parameters. The electronic device (40, 40') indicates the fault code for  
the component. The system (10, 10') can also be used for generating  
artificial fault codes and evaluating training exercises based upon  
responses to artificial fault codes.

French Abstract

L'invention concerne un systeme (10, 10'), des instructions de programme

ou un procede permettant d'entretenir un produit deploye (20, 20') equipe d'au moins un composant et de former des preposes a l'entretien et aux reparations (40, 40'). Ledit systeme (10, 10') comprend un microserveur (30, 30'), un capteur et un dispositif electronique (40, 40'). Le microserveur (30, 30') forme une seule piece avec le produit deploye (20, 20'). Le capteur communique avec le microserveur (30, 30') et est connecte de maniere fonctionnelle au composant afin de surveiller des parametres dudit composant. Ledit capteur communique les parametres au microserveur (30, 30'). Le dispositif electronique (40, 40') communique sans fil avec le microserveur (30, 30') et est place a distance dudit microserveur (30, 30'). Ledit dispositif electronique (40, 40') recoit des signaux de code de panne generes par le microserveur (30, 30'). Les signaux de code de panne representent un code de panne pour le composant en fonction des parametres. Le dispositif electronique (40, 40') indique le code de panne pour le composant. Le systeme (10, 10') peut egalement etre utilise pour generer des codes de pannes artificiels et evaluer des exercices d'apprentissage en fonction des reponses aux codes de pannes artificiels.

Legal Status (Type, Date, Text)

Publication 20060223 A2 Without international search report and to be republished upon receipt of that report.

Examination 20060720 Request for preliminary examination prior to end of 19th month from priority date

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... an artificial fault code for the component;  
communicating fault code signals representative of the artificial **fault**  
code to a remotely located electronic device; displaying a visual **image**  
on the electronic device of at least the component exhibiting the  
artificial fault  
code; providing for the maintenance worker to input task data  
**representative** of maintenance **functions** to be performed on the  
component  
based upon the artificial fault code via a **user interface** of the  
electronic device; and evaluating the inputted maintenance functions for  
accuracy.

[00211 The fault...

...communicated to the electronic device in real-time. The  
electronic device can display a visual **image** of at least the component  
exhibiting the **fault** code. The visual **image** may be a  
three-dimensional  
**image**. The electronic device can indicate maintenance functions to be  
performed on the component based upon...

Claim

... component exhibiting said artificial fault code;  
providing for the maintenance worker to input task data  
**representative** of maintenance **functions** to be performed on the  
component  
based upon said artificial fault code via a **user interface** of said  
electronic  
device (40'); and  
evaluating said inputted maintenance functions for accuracy.

31 The method of claim 30, wherein said visual image is a  
threedimensional **image**.

32 The method of claim 30, wherein said artificial **fault** code is based upon trends in real-world maintenance needs.

33 The method of claim...

11/5,K/13 (Item 13 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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01076323 \*\*Image available\*\*

**PROBLEM SOLVING BY A CAD PROGRAM**

**RESOLUTION DE PROBLEMES AU MOYEN D'UN PROGRAMME DE CAO**

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 2003107277 A2-A3 20031224 (WO 03107277)

Application: WO 2003EP6386 20030617 (PCT/WO EP03006386)

Priority Application: EP 200213531 20020618

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD  
SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class (v7): G06T-017/40

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3453

**English Abstract**

In a method for solving problems that are related to geometrical properties of objects processed by a CAD program, a possible problem related to a geometrical property of at least one object is identified, and an indicator symbol is displayed in a drawing window of the CAD program. The indicator symbol is shown in graphical association with at least one entity processed by the CAD program, the entity being related to the identified possible problem. A user action related to the indicator symbol is received, and problem solving assistance is provided to the user in response to the user action. A computer program product and an apparatus comprise corresponding features. The invention provides a way for solving problems related to geometrical properties of objects processed by a CAD program that minimizes workflow disruption even in cases where the problem cannot be solved in an entirely automatic way.

**French Abstract**

Dans un procede de resolution de problemes lies aux proprietes geometriques d'objets traites par un programme de CAO, un eventuel probleme lie a une propriete geometrique d'au moins un objet est identifie, et un symbole indicateur est affiche dans une fenetre de dessin a main levee du programme de CAO. Le symbole indicateur est affiche en association graphique avec au moins une entite traitee par le programme de CAO, ladite entite se rapportant a l'eventuel probleme identifie. Une action d'utilisateur liee au symbole indicateur est recue, et une assistance en matiere de resolution du probleme est fournie a

l'utilisateur en reponse a cette action d'utilisateur. Un produit logiciel et un appareil correspondant comprennent des fonctionnalites correspondantes. L'invention offre un moyen pour trouver des solutions aux problemes en rapport avec des proprietes geometriques des objets traites par un programme de CAO qui reduit au minimum l'interruption du flux de travail, et cela meme lorsque le probleme ne peut pas etre regle de maniere completement automatisee.

Legal Status (Type, Date, Text)

Publication 20031224 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20040826 Late publication of international search report

Republication 20040826 A3 With international search report.

Republication 20040826 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Fulltext Availability:

Detailed Description

Detailed Description

... went wrong.

Fig. 2 shows the same situation as that of Fig. 1 for a CAD program 10 according to the present invention. Again, the dimension error symbol 24 is displayed since no proper dimensioning is possible. However, the CAD program 10 identifies the problem related to the invalid cutplane setting in the wall...

...or a red cross on a color display) is shown on top of the dimension error symbol. The indicator symbol 26 signifies that the CAD program 10 is able to provide problem resolution assistance with respect to the present problem...

...shown, which provides to a clear graphical association between the dimensioning (represented by the dimension error symbol 24), which is affected by the problem, and the wall (represented by the rectangle 20...

11/5,K/17 (Item 17 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00488451 \*\*Image available\*\*

**INTEGRATED CUSTOMER INTERFACE FOR WEB BASED COMMUNICATIONS NETWORK  
MANAGEMENT**

**INTERFACE CLIENT INTEGREE POUR LA GESTION DE RESEAUX DE COMMUNICATIONS  
BASES SUR LE WEB**

Patent Applicant/Assignee:

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JAMES Angela R,  
LEVY Lynne,  
TUSA Michael,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9919803 A1 19990422  
Application: WO 98US20173 19980925 (PCT/WO US9820173)  
Priority Application: US 9760655 19970926

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AU BR CA JP MX SG AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class (v7): G06F-013/00

International Patent Class (v7): G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 90769

**English Abstract**

A web-based, integrated customer interface system (30) for enabling customer management of their communication network assets. A web-based GUI (20) enables a customer to interact with one or more network management resources and telecommunication services. The integrated interface system (30) includes: 1) a customer's network report management; 2) a centralized in-box system for online notifications to client workstation; 3) a real-time network services monitoring system; 4) broadband system for presenting physical and logical views of data networks and performance information; 5) a toll-free network management system enabling customization of 800/8xx toll free number routing; 6) Outbound Network Management (ONM); 7) packet-switched events monitoring; 8) a trouble ticket tool; 9) web-based invoice reporting for access to billing information; 10) web-based call manager; 11) on-line order entry and administrative service; 12) system for handling security and authentication.

**French Abstract**

Cette invention se rapporte a un systeme d'interface client integree (30) basee sur le Web, qui est concu pour permettre a des clients de gerer leurs avoirs sur des reseaux de communication. A cet effet, une interface utilisateur graphique (GUI) (20) basee sur le Web permet a un client d'interagir avec une ou plusieurs ressources de gestion de reseau et avec un ou plusieurs services de telecommunications. Ce systeme

d'interface integree (30) comprend: 1) une fonction de gestion de rapports reseau du client; 2) un systeme de corbeille d'arrivee centralise pour les notifications en ligne adressees a la station de travail client; 3) un systeme de surveillance des services de reseau en temps reel; 4) un systeme a bande large servant a presenter des vues physiques et logiques des reseaux de donnees et des informations sur les performances; 5) un systeme de gestion de reseau gratuit, permettant la personnalisation de l'acheminement des numeros gratuits du type 800/8xx; 6) une fonction de gestion de reseau de transmissions sortantes (ONM); 7) une fonction de surveillance des evenements a commutation par paquets; 8) un outil de gestion des appels de depannage; 9) une fonction de rapport sur les factures basee sur le Web et permettant l'accès aux informations de facturation; 10) un questionnaire d'appels base sur le Web; 11) un service d'administration et d'entree des commandes en ligne; 12) et un systeme de gestion de la securite et de l'authentification.

Fulltext Availability:  
Detailed Description

#### Detailed Description

... including: communications, I/O services to local resources, user authentication, internationalization, common look and feel, **application** management, and a **model** view controller (MVC) framework. The primary common object services for each of the suite of applications include: graphical **user interface** ( **GUI** ); application launch; window navigation among applications; inter-application communications; printing; user identity, session management, authentication, and entitlements; data import and export; logging and statistics; **error** handling; version management; and messaging services.

As shown in Figure 2, the aforesaid objects communicate...



11/5,K/18 (Item 18 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00461858 \*\*Image available\*\*

**APPARATUS AND METHOD FOR NETWORK CAPACITY EVALUATION AND PLANNING**  
**APPAREIL ET DISPOSITIF POUR L'EVALUATION ET LA PLANIFICATION DE LA CAPACITE**  
**D'UN RESEAU**

Patent Applicant/Assignee:

CABLETRON SYSTEMS INC,  
DATTA Utpal,  
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Inventor(s):

DATTA Utpal,  
LEWIS Lundy,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9852322 A1 19981119

Application: WO 98US9431 19980508 (PCT/WO US9809431)

Priority Application: US 97855222 19970513

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM  
GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX  
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH  
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES  
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD  
TG

Main International Patent Class (v7): H04L-012/24

International Patent Class (v7): H04L-12:26

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8421

**English Abstract**

Network capacity evaluation and planning is performed based upon the traffic across the links of the network. Once a link's traffic volume has been measured, it is compared with the link's traffic capability, and the resulting parameters compared with the traffic and capability of other links of the network to create measures of network capacity and balance. Then, simulated changes to the network configuration may be made by substituting simulated traffic volume amounts and capabilities for selected link traffic measurements and capabilities, and the resulting measures of network capacity and balance may then be compared to determine whether the simulated changes represent a preferred network configuration.

**French Abstract**

La presente invention se rapporte a l'evaluation et a la planification de la capacite d'un reseau realisees sur la base du trafic s'operant a travers les liens du reseau. Lorsqu'un volume de trafic d'un lien est mesure, il est compare a la capacite de trafic du lien, les parametres resultants etant ensuite compares au trafic et a la capacite d'autres liens du reseau, de maniere a obtenir les mesures de la capacite du reseau et de son equilibrage. On peut realiser les changements simules de la configuration du reseau en remplaçant les mesures et les capacites d'un lien de trafic selectionne par des valeurs et des capacites de volume de trafic simule, les mesures resultantes de la capacite du reseau et de son equilibrage pouvant etre comparees par la suite de maniere a determiner si les changements simules representent une configuration de reseau preferee.

Fulltext Availability:

## Detailed Description

### Detailed Description

... a particular alarm in the listing of current alarms to obtain more information. A multi- **function icon** 44 **representing** the network device having the **fault** is displayed in area 42, and one or more text fields 46 and 48 which...

11/5,K/20 (Item 20 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00354446

**NON-CONTACT USER INTERFACE FOR DATA PROCESSING SYSTEM**  
**INTERFACE UTILISATEUR SANS CONTACT POUR SYSTEME DE TRAITEMENT DES DONNEES**

Patent Applicant/Assignee:

INTELLIGENT DEVICES L L C,

Inventor(s):

JACOBS Michael A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9636960 A1 19961121

Application: WO 96US7255 19960520 (PCT/WO US9607255)

Priority Application: US 95444572 19950519

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class (v7): G09G-005/08

International Patent Class (v7): G04C-23:10

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11981

**English Abstract**

Disclosed is an improved user interface for a data processing system, particularly well suited for portable systems configured for donning by a user. A preferred embodiment includes a multifunction wristwatch (14) having a limited display (20) and a single switch (22) for switching between a display state and a data state. Once in the data state, data input, editing and retrieval may be effectuated by deliberate user motion actuation (28) or at least one non-contact sensor (24), for example of the light sensitive or sonic sensitive variety, in accordance with displayed menu options and functions. System logic advantageously may include help messages as well as an edit facility with integral character data sets individually selectable by rotating and non-rotating methods and combinations thereof to facilitate data input.

**French Abstract**

Cette invention concerne une interface utilisateur amelioree pour systeme de traitement des donnees, laquelle convient tout particulierement a des systemes portables concus pour qu'un utilisateur les porte sur lui. Dans un mode de realisation prefere, une montre bracelet multifonction (14) comprend un affichage restreint (20) ainsi qu'un commutateur unique (22) permettant de commuter entre un mode affichage et un mode donnees. Lorsque l'on se trouve en mode donnees, l'entree, l'edition ou l'extraction de donnees peuvent se faire par un mouvement delibere (28) de l'utilisateur visant a actionner au moins un capteur sans contact (24), par exemple un capteur du type sensible a la lumiere ou sensible au son, en fonction des options et des fonctions de menu affichees. Le circuit logique du systeme peut presenter l'avantage d'inclure des messages d'aide ainsi que des possibilites d'edition avec des ensembles de donnees de caracteres integres pouvant etre selectionnes de maniere individuelle par des procedes de rotation ou de non-rotation, ou encore des combinaisons de ces procedes, afin de faciliter l'entree des donnees.

Fulltext Availability:

Detailed Description

**Detailed Description**

... such interfaces require significant space

for labelling or otherwise identifying the multiple characters and/or **functions** **represented** by each button.

Yet further, each **button** and associated switch is subject to wear, malfunction and **failure** and provides an entry@path for moisture, dirt and other contaminants which limit the, useful...

...of the interface and system.

PCr[US96/07255 summary of the Invention

A non-contact **user interface** apparatus and method is disclosed which is particularly well suited for use with a portable...

Set	Items	Description
S1	199121	GUI OR GUIS OR UI OR USER()INTERFACE? OR WIMP OR WINDOW()I- CON()MENU()POINTER()INTERFACE? ?
S2	51022	(DESIGN? OR DRAW OR DRAWING OR PLAN OR PLANNING) (3W)(SURF- ACE? ? OR DISPLAY? ? OR INTERFACE? ?)
S3	378430	CAD OR COMPUTER()AIDED()DESIGN
S4	16993595	APPLICATION? ? OR PROGRAM? ? OR SOFTWARE OR API OR ROUTINE? ? OR AGENT? ? OR FUNCTION? ? OR MODULE? ? OR WIZARD? ? OR CO- DE OR CODING
S5	640349	S4 (3N) (REPRESENT? OR STAND?())(FOR OR AS) OR SYMBOL? OR S- IGNIFY OR SIGNIFYING OR SIGNIFIE? ? OR MODEL? )
S6	3499089	ERROR? ? OR FAULT? ? OR FLAW OR FLAWS OR FLAWED OR FAILURE? ? OR FAILED OR FAIL OR FAILING
S7	3418258	ICON? ? OR BUTTON? ? OR IMAGE? ? OR SYMBOL? ? OR SIGN? ? OR GRAPHIC?
S8	89638	S6 (10N) S7
S9	185	(S1 OR S2 OR S3) AND S5 AND S8
S10	1522169	CONFIGURE? ? OR CONFIGURING OR CONFIGURATION? ? OR SETUP OR SET()UP
S11	21620	S10 (10N) S6
S12	562	S11 (10N) S7
S13	2	(S1 OR S2 OR S3) AND S5 AND S12
S14	3759049	SHAPE? ? OR GEOMETRIC?()OBJECT? ? OR SYMBOL? ? OR SIGN? ? - OR BLOCK? ? OR RECTANGLE? ? OR SQUARE? ? OR OBLONG? ? OR TRIA- NGLE? ?
S15	78	S9 AND S14
S16	319691	S14 (10N) S4
S17	141	(S1 OR S2 OR S3) AND S16 AND S8
S18	3	(S1 OR S2 OR S3) AND S16 AND S12
S19	2	S18 NOT S13
S20	65	S15 NOT PY>2003
S21	64	S20 NOT (S13 OR S19)
S22	46	RD (unique items)
S23	23356	S14 (5N) S5
S24	57	(S1 OR S2 OR S3) AND S23 AND S8
S25	56	S24 NOT (S13 OR S19)
S26	49	S25 NOT PY>2003
S27	36	RD (unique items)
File	8:EI	Compendex(R) 1970-2006/Aug W3 (c) 2006 Elsevier Eng. Info. Inc.
File	35:	Dissertation Abs Online 1861-2006/Jun (c) 2006 ProQuest Info&Learning
File	65:	Inside Conferences 1993-2006/Aug 29 (c) 2006 BLDSC all rts. reserv.
File	2:	INSPEC 1898-2006/Aug W3 (c) 2006 Institution of Electrical Engineers
File	94:	JICST-EPlus 1985-2006/May W3 (c) 2006 Japan Science and Tech Corp(JST)
File	111:	TGG Natl.Newspaper Index(SM) 1979-2006/Aug 16 (c) 2006 The Gale Group
File	6:	NTIS 1964-2006/Aug W3 (c) 2006 NTIS, Intl Cpyrghrt All Rights Res
File	144:	Pascal 1973-2006/Aug W1 (c) 2006 INIST/CNRS
File	434:	SciSearch(R) Cited Ref Sci 1974-1989/Dec (c) 2006 The Thomson Corp
File	34:	SciSearch(R) Cited Ref Sci 1990-2006/Aug W3 (c) 2006 The Thomson Corp
File	62:	SPIN(R) 1975-2006/Apr W4 (c) 2006 American Institute of Physics
File	99:	Wilson Appl. Sci & Tech Abs 1983-2006/Jul (c) 2006 The HW Wilson Co.
File	95:	TEME-Technology & Management 1989-2006/Aug W4 (c) 2006 FIZ TECHNIK
File	56:	Computer and Information Systems Abstracts 1966-2006/Aug

(c) 2006 CSA.  
File 57:Electronics & Communications Abstracts 1966-2006/Aug  
(c) 2006 CSA.  
File 60:ANTE: Abstracts in New Tech & Engineer 1966-2006/Aug  
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File 266:FEDRIP 2005/Dec  
Comp & dist by NTIS, Intl Copyright All Rights Res  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 438:Library Lit. & Info. Science 1984-2006/Jul  
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13/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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04042964 INSPEC Abstract Number: C88009827

**Title: Use of model-based qualitative icons and adaptive windows in workstations for supervisory control systems**

Author(s): Mitchell, C.M.; Saisi, D.L.

Author Affiliation: Sch. of Ind. & Syst. Eng., Georgia Inst. of Technol., Atlanta, GA, USA

Journal: IEEE Transactions on Systems, Man and Cybernetics vol.SMC-17, no.4 p.573-93

Publication Date: July-Aug. 1987 Country of Publication: USA

CODEN: ISYMAW ISSN: 0018-9472

U.S. Copyright Clearance Center Code: 0018-9472/87/0700-0573\$01.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Experimental (X)

Abstract: Qualitative icons and windowing technology have been combined and implemented in an operator interface to the Georgia Tech-Multisatellite Operations Control Center (GT-MSOCC). An operator **function model** for GT-MSOCC was used to derive workstation features, including hardware **configuration**, the function of qualitative **icons** for monitoring, **fault** detection and identification, and the contents and placement of computer windows. The model also determined sets of windows needed by the operator to undertake major operator control functions. An experiment was performed to evaluate the effectiveness of a workstation incorporating model-based qualitative icons and dynamic operator-function window sets. Eleven measures that reflected operator performance were analyzed. Subjects using the model-based workstation operated the system significantly better on nine of these measures. On all measures, performance with the model-based workstation was uniformly better on average and had less variability than performance with the conventional workstation. (31 Refs)

Subfile: C

Descriptors: aerospace computer control; digital simulation; engineering workstations; human factors; **user interfaces**

Identifiers: aerospace computer control; model-based qualitative icons; adaptive windows; workstations; supervisory control systems; Georgia Tech-Multisatellite Operations Control Center; GT-MSOCC; operator **function model**; operator performance

Class Codes: C7420 (Control engineering); C7460 (Aerospace engineering)

13/5/2 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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05335700 JICST ACCESSION NUMBER: 03A0094577 FILE SEGMENT: JICST-E

**Non-binary Single Symbol Error Correcting. Adjacent Two Symbol**

**Transposition Error Correcting Codes over Integer Rings.**

NAMBA KAZUTERU (1); FUJIWARA EIJI (1)

(1) Tokyo Inst. Technol, Graduate School of Information Sci. and Engineering, JPN

Denshi Joho Tsushin Gakkai Ronbunshi. D,1(Transactions of the Institute of Electronics, Information and Communication Engineers. D-1), 2003,

VOL.J86-D-1,NO.1, PAGE.23-28, FIG.2, TBL.1, REF.4

JOURNAL NUMBER: S0757BAG ISSN NO: 0915-1915

UNIVERSAL DECIMAL CLASSIFICATION: 621.391.037.3

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: In the systems such as a character recognition and the information input system of keyboard, a multidimensional information ( m-dimensional symbol information ) is often used. In such systems, it is known that single **symbol** error and adjacent two **symbol** transposition **error** to occur. This paper proposes the code **configuration** of correcting codes for such **errors** . The proposed **code** generates an inspection **symbol** on two kinds of integer rings and prime field. Then, it obtains codes by transforming these inspection symbols into m-dimensional symbols and add them to information **symbols** . Also, the proposed **code** excels the conventional code concerning length, for example, the code length will be more than double of the conventional code when m=10.

DESCRIPTORS: error correcting code; ring(mathematics); integer; coding(signal); decoding; error detection; character recognition; keyboard; **user interface** ; reliability(property); coding theory

BROADER DESCRIPTORS: code; algebraic system; rational number; real number; complex number; number(mathematics); modification; signal processing; treatment; error control; control; detection; figure pattern recognition; pattern recognition; recognition; operation panel; interface; performance; theory

CLASSIFICATION CODE(S): ND02030R



27/5/3 (Item 3 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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06335555 E.I. No: EIP03137412713

**Title: Modeling the coverage and effectiveness of fault-management architectures in layered distributed systems**

Author: Das, Olivia; Woodside, C. Murray

Corporate Source: Dept. of Systems and Computer Eng. Carleton University, Ottawa, Ont., Canada

Conference Title: Proceedings of the 2002 International Conference on Dependable Systems and Networks DNS 2002

Conference Location: Washington, DC, United States Conference Date: 20020623-20020626

Sponsor: IEEE Computer Society (TCFTC); IFIP Working Group 10.4 on Dependable Comp. and Fault Tolerance

E.I. Conference No.: 60544

Source: Proceedings of the 2002 International Conference on Dependable Systems and Networks 2002.

Publication Year: 2002

ISBN: 0769515975

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 0303W5

Abstract: Increasingly, fault-tolerant distributed software applications use a separate architecture for failure detection instead of coding the mechanisms inside the application itself. Such a structure removes the intricacies of the failure detection mechanisms from the application, and avoids repeating them in every program. However, successful system reconfiguration now depends on the management architecture (which does both fault detection and reconfiguration), and on management subsystem failures, as well as on the application. This paper presents an approach which computes the architecture-based system reconfiguration coverage simultaneously with its performability. 29 Refs.

Descriptors: \*Fault tolerant computer systems; Computer architecture; Distributed computer systems; Mathematical **models**; **Software** engineering; Encoding ( **symbols** ); Computational methods; Computer system recovery; **User interfaces**; **Error** detection

Identifiers: Fault management architectures; Failure detection; Fault coverage; System reconfiguration

Classification Codes:

722.4 (Digital Computers & Systems); 921.6 (Numerical Methods); 723.1 (Computer Programming); 723.2 (Data Processing); 721.1 (Computer Theory (Includes Formal Logic, Automata Theory, Switching Theory & Programming Theory)); 722.2 (Computer Peripheral Equipment)

722 (Computer Hardware); 921 (Applied Mathematics); 723 (Computer Software, Data Handling & Applications); 721 (Computer Circuits & Logic Elements)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

27/5/4 (Item 4 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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06249204 E.I. No: EIP02527291588

**Title: Using code level model checking to discover automation surprises**

Author: Tkachuk, Oksana; Brat, Guillaume; Visser, Willem

Corporate Source: Kansas State University, Manhattan, KS, United States

Conference Title: Air Traffic Management for Commercial and Military Systems

Conference Location: Irvine, CA, United States Conference Date: 20021027-20021031

E.I. Conference No.: 60402

Source: AIAA/IEEE Digital Avionics Systems Conference - Proceedings v 2 2002. p 7D21-7D210 (IEEE cat n 02ch37325)

Publication Year: 2002

CODEN: ADACFY

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 0301W1

Abstract: The use of code level model checking was used for automatic discovery of mode confusions in software used for simulations of aircraft and shuttle automation. The main approach was to identify the four models of the systems: the machine, interface, user and the user task. It was found that the verification techniques could be applied for detection of errors in the designs of human-machine automation. (Edited abstract) 18 Refs.

Descriptors: \*Aircraft; Automation; Software engineering; Human computer interaction; **Error** detection; Spacecraft; **Graphical user interfaces**; Java programming language; **Software** prototyping; Codes ( **symbols** ); Computer simulation

Identifiers: Code level models

Classification Codes:

723.1.1 (Computer Programming Languages)

652.1 (Aircraft, General); 723.1 (Computer Programming); 721.1 (Computer Theory (Includes Formal Logic, Automata Theory, Switching Theory & Programming Theory)); 655.1 (Spacecraft, General); 722.2 (Computer Peripheral Equipment); 723.2 (Data Processing); 723.5 (Computer Applications)

652 (Aircraft); 731 (Automatic Control Principles & Applications); 723 (Computer Software, Data Handling & Applications); 721 (Computer Circuits & Logic Elements); 655 (Spacecraft); 722 (Computer Hardware)

65 (AEROSPACE ENGINEERING); 73 (CONTROL ENGINEERING); 72 (COMPUTERS & DATA PROCESSING)

27/5/6 (Item 6 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05973458 E.I. No: EIP01546793398

**Title: Technical note: Visually encoding program test information to find faults in software**

Author: Eagan, J.; Harrold, M.J.; Jones, J.A.; Stasko, J.

Corporate Source: College of Computing Gvu Center Georgia Institute of Technology, Atlanta, GA 30332-0280, United States

Conference Title: IEEE Symposium on Information Visualization 2001 (INFOVIS)

Conference Location: San Diego, CA, United States Conference Date: 20011022-20011023

Sponsor: IEEE Computer Society; Technical Committee on Visualization and Graphics

E.I. Conference No.: 58870

Source: Proceedings of the IEEE Symposium on Information Visualization 2001. p 33-36

Publication Year: 2001

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 0113W2

Abstract: Large test suites are frequently used to evaluate software systems and to locate errors. Unfortunately, this process can generate a huge amount of data that is difficult to interpret manually. We have created a system, Tarantula, that visually encodes test data to help find program errors. The system uses a principled color mapping to represent source lines in passed and failed tests. It also provides a flexible **user interface** for examining different perspectives that show the behavior of the source code on test sets, ranging from individual tests, to important subsets such as the set of failed tests, to the entire test suite. 5 Refs.

Descriptors: \*Computer software selection and evaluation; **Error** analysis; **Program** diagnostics; Encoding ( **symbols** ); **User interfaces**

Identifiers: Software errors; Tarantula; Program errors; Color mapping

Classification Codes:

723.5 (Computer Applications); 723.1 (Computer Programming); 723.2 (Data Processing)

723 (Computer Software, Data Handling & Applications)

72 (COMPUTERS & DATA PROCESSING)

27/5/8 (Item 8 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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04963294 E.I. No: EIP98034102034

**Title: MEADEP and its applications in evaluating dependability for air traffic control systems**

Author: Tang, Dong; Hecht, Myron; Handal, Jady; Czekalski, Loni

Corporate Source: SoHaR Inc, Beverly Hills, USA

Conference Title: Proceedings of the 1998 Reliability and Maintainability Symposium

Conference Location: Anaheim, CA, USA Conference Date: 19980119-19980122

Sponsor: IEEE

E.I. Conference No.: 48074

Source: Proceedings of the Annual Reliability and Maintainability Symposium 1998. IEEE, Piscataway, NJ, USA, 98CH36161. p 195-201

Publication Year: 1998

CODEN: PRMSCS ISSN: 0149-144X

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 9804W5

Abstract: MEADEP is a user-friendly dependability evaluation tool for measurement-based analysis of computing systems including both hardware and software. Features of MEADEP are: a data processor for converting data in various formats (records with a number of fields stored in a commercial database format) to the MEADEP format, a statistical analysis module for graphical data presentation and parameter estimation, a graphical modeling interface for constructing reliability **block** and Markov diagrams, and a **model solution module** for availability/reliability calculation with **graphical** parametric analysis. Use of the tool on **failure** data from measurements can provide quantitative assessments of dependability for critical systems, while greatly reducing requirements for specialized skills in data processing, analysis, and modeling from the user. MEADEP has been applied to evaluate dependability for several air traffic control systems (ATC) and results produced by MEADEP have provided valuable feedback to the program management of these critical systems. (Author abstract) 15 Refs.

Descriptors: \*Computer software selection and evaluation; Reliability; Air traffic control; Data reduction; Markov processes; Statistical methods; Parameter estimation; Mathematical models; Computer system recovery; Graphical **user interfaces**

Identifiers: Software package MEASURE DEPENDABILITY (MEADEP)

Classification Codes:

922.2 (Mathematical Statistics); 431.5 (Air Navigation & Traffic Control); 723.2 (Data Processing); 922.1 (Probability Theory)

723 (Computer Software); 922 (Statistical Methods); 431 (Air Transportation); 921 (Applied Mathematics)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS); 43 (TRANSPORTATION)

27/5/10 (Item 10 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04401863 E.I. No: EIP96053168279

**Title: Multiple index approach for the evaluation of pictograms and icons**

Author: Boecker, Martin

Corporate Source: Heinrich-Hertz-Inst, Berlin, Ger

Source: Computer Standards & Interfaces v 18 n 2 Mar 1996. p 107-115

Publication Year: 1996

CODEN: CSTIEZ ISSN: 0920-5489

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review)

Journal Announcement: 9607W1

**Abstract:** Pictograms and icons that are not easily recognised by the users run the risk of being under-used or even superfluous. Well-designed pictograms allow the user to recognise the represented functions of a device (e.g. of a computer interface) without the need of extra instruction. It is argued that it is imperative that pictograms be empirically tested in order to establish whether the user does indeed associate the appropriate referent. A number of pictogram evaluation methods are available with some of them being restricted to certain applications only and others having considerable methodological drawbacks. The Multiple Index Approach for the evaluation of pictograms is presented which has been developed by the Technical Committee Human Factors of the European Telecommunications Standards Institute (ETSI). It focuses on both correct associations and errors and takes into account aesthetic as well as performance parameters. (Author abstract) 16 Refs.

**Descriptors:** \*Graphical user interfaces ; Interactive computer graphics ; Codes ( symbols ) ; Functions ; Interfaces (computer) ; Errors ; Performance ; Standards

**Identifiers:** Pictograms ; Multiple index approach ; Interface design

**Classification Codes:**

722.2 (Computer Peripheral Equipment); 723.5 (Computer Applications);  
723.2 (Data Processing); 902.2 (Codes & Standards)  
722 (Computer Hardware); 723 (Computer Software); 902 (Engineering Graphics & Standards)  
72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

27/5/11 (Item 11 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04359527 E.I. No: EIP96033067384

**Title: Tool support for collaborative software prototyping**

Author: Shefrin, Elliot A.; Purtilo, James M.

Corporate Source: Univ of Maryland, College Park, MD, USA

Conference Title: Proceedings of the 1995 4th Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises

Conference Location: Berkeley Springs, WV, USA Conference Date: 19950420-19950422

Sponsor: IEEE

E.I. Conference No.: 44386

Source: Proceedings of the Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises, WET ICE 1995. IEEE, Los Alamitos, CA, USA, 95TH8030. p 25-35

Publication Year: 1995

CODEN: 002314

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications)

Journal Announcement: 9605W1

Abstract: Prototyping is a means by which requirements for software projects can be defined and refined before they are committed to firm specifications for the finished software product. By this process, costly and time-consuming errors in specification can be avoided or minimized. Reconfiguration is the concept of altering the program code, bindings between program modules, or logical or physical distribution of software components while allowing the continuing execution of the software being changed. Combining these two notions suggests the potential for a development environment where requirements can be quickly and dynamically evolved. This paper discusses reconfiguration-based prototyping (RBP), that is, the simultaneous consideration of requirements, software behavior and user feedback within a running system in order to derive a clear specification of an intended product. Tools enabling RBP can coordinate the efforts of developers, users and subject matter specialists alike as they work toward consensus on an application's specification by means of a prototype. (Author abstract) 10 Refs.

Descriptors: \*Computer aided software engineering; Software prototyping; Specifications; **Errors** ; Codes ( **symbols** ); **User interfaces** ; Computer software

Identifiers: Reconfiguration based prototyping; Software component; Software product; Reconfiguration

Classification Codes:

723.5 (Computer Applications); 902.2 (Codes & Standards); 723.2 (Data Processing); 722.2 (Computer Peripheral Equipment); 723.1 (Computer Programming)

723 (Computer Software); 902 (Engineering Graphics & Standards); 722 (Computer Hardware)

72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

27/5/13 (Item 13 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04335226 E.I. No: EIP96023018286

**Title: CGI and the world wide web**

Author: Dutt, G. Dinesh

Corporate Source: Hinditron-Tektronix Instruments Ltd, Bombay, India

Source: Dr. Dobb's Journal of Software Tools for Professional Programmer  
v 21 n 2 Feb 1996. 5pp

Publication Year: 1996

CODEN: DDJTEQ ISSN: 1044-789X

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review)

Journal Announcement: 9603W4

Abstract: The Common Gateway Interface (CGI) technology enable Web servers to interact with external programs, hence making the World Wide Web very useful. Inputs are normally made available via the clients. In view of this, it is assumed in this discussion that the interaction occurs between the client and the gateway, instead of between the server and gateway. The basic tools needed to use CGI are a language that produces executables and access to a CGI-enabled HTTP server. As an example, a simple form-based application that uses a form generated by the HTML code is presented.

Descriptors: **\*User interfaces** ; Gateways (computer networks); UNIX;  
Codes ( **symbols** ); **Program** debugging; **Coding errors** ; Security of data  
; Database systems

Identifiers: Common gateway interface; World Wide Web; Data input;  
Browser

Classification Codes:

722.2 (Computer Peripheral Equipment); 723.1 (Computer Programming);

723.2 (Data Processing); 723.3 (Database Systems)

722 (Computer Hardware); 723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

27/5/14 (Item 14 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04229403 E.I. No: EIP95082821465

**Title: Fully conformant implementation of ECMA-162**

Author: Stuckey, Richard

Corporate Source: ICL Enterprises, Reading, Engl

Source: Ada User Journal v 16 n 2 Jun 1995. p 83-94

Publication Year: 1995

CODEN: AUJOET ISSN: 0268-652X

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review)

Journal Announcement: 9510W3

**Abstract:** ICL has developed a portable implementation of the Ada interfaces to PCTE as specified by ECMA-162. The interfaces map the functionality required onto that provided by the C interfaces to PCTE as specified by ECMA-158. The process of implementing the interfaces revealed a number of errors in the ECMA PCTE standards, such as errors in ECMA-162 concerning the mapping of ECMA-149 onto Ada, errors in ECMA-158 such as missing operations or functions with incorrect parameter modes, discrepancies between the Ada and C bindings and errors in ECMA-149. The architecture of the interfaces and their test harness has been designed to allow easy porting from one PCTE implementation to another, and also from one Ada compilation system to another; some major constraints were imposed by the use of the C interfaces as the underlying platform, particularly regarding Ada's multi-threading abilities. The advantages of using the interfaces include the benefits of being able to implement tools in Ada instead of C; insulation from the underlying PCTE implementation; and the provision of facilities (e.g. call tracing) between tools and PCTE. (Author abstract) 11 Refs.

**Descriptors:** \*Ada (programming language); **User interfaces ; Errors ; Standards;** C (programming language); Computer aided **software** engineering; Codes ( **symbols** )

**Identifiers:** Ada interfaces

**Classification Codes:**

723.1.1 (Computer Programming Languages)

723.1 (Computer Programming); 722.2 (Computer Peripheral Equipment);

902.2 (Codes & Standards); 723.5 (Computer Applications)

723 (Computer Software); 722 (Computer Hardware); 902 (Engineering

Graphics & Standards)

72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)



27/5/17 (Item 17 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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04121005 E.I. No: EIP95032637091

**Title: Using data abstraction to guide the restructuring of Fortran**

Author: Ellis, R.; Liu, L.

Conference Title: IEE Computing and Control Division Colloquium on Reverse Engineering for Software Based Systems

Conference Location: London, UK Conference Date: 19941110

Sponsor: IEE

E.I. Conference No.: 42689

Source: IEE Colloquium (Digest) n 211 1994. IEE, Stevenage, Engl. p 4/1-5

Publication Year: 1994

CODEN: DCILDN ISSN: 0963-3308

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications); G; (General Review)

Journal Announcement: 9505W4

Abstract: This paper reports on work originally initiated as part of the SERC/DTI supported Recoup project (IED4/1/2152) whose objective was to enable the recovery of the abstract design, expressed using a mathematical notation, of a program from its representation as FORTRAN code. This process involves an intermediate stage, at which the code is reengineered so as to remove the more pathological features commonly found in FORTRAN programs. It is to the achievement of this restructuring that the work at Westminster has been directed. It is believed that the technique described has a considerable potential for development. The major initial requirement is for a considerable amount of exposure to actual legacy systems.

Descriptors: \*Software engineering; FORTRAN (programming language); Data structures; Codes ( **symbols** ); Computer programming; Computer **software** ; Subroutines; **User interfaces** ; Programming theory; **Errors**

Identifiers: Data abstraction; FORTRAN restructuring; Reengineering; Closure slice; Legacy systems; Idioms; Data flows

Classification Codes:

723.1.1 (Computer Programming Languages)

723.1 (Computer Programming); 723.2 (Data Processing); 722.2 (Computer Peripheral Equipment); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory)

723 (Computer Software); 722 (Computer Hardware); 721 (Computer Circuits & Logic Elements)

72 (COMPUTERS & DATA PROCESSING)

27/5/18 (Item 18 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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04069018 E.I. No: EIP95022558523

**Title: PC-based general purpose Reed-Solomon CODEC simulator**

Author: LeNgoc, Son; Banerjee, Tapas; Ye, Ying

Corporate Source: Memorial Univ of Newfoundland, St. John's, Newfoundl, Can

Conference Title: Proceedings of the 1994 Canadian Conference on Electrical and Computer Engineering. Part 2 (of 2)

Conference Location: Halifax, Can Conference Date: 19940925-19940928

Sponsor: Canadian Society for Electrical and Computer Engineering; IEEE

E.I. Conference No.: 42396

Source: Canadian Conference on Electrical and Computer Engineering v 2 1994. IEEE, Piscataway, NJ, USA. p 751-754

Publication Year: 1994

CODEN: 001780

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications)

Journal Announcement: 9504W3

Abstract: This paper introduces a PC based general purpose Reed-Solomon (RS) CODEC simulator for teaching as well as research purposes. The user can define a **code** by selecting the **symbol** length 3 less than equivalent to  $m$  less than equivalent to 8 bits and the error correcting capability  $T$  of up to 20. In the encoder, the systematic code generation and the self-reciprocal generator polynomial are used. The error pattern can either be entered by the user with the arbitrary weight or generated by an external program which alternates all possible error positions. In the decoding process, both Peterson's and Berlekamp's algorithms are available for the user's choice. Chien Search is used for finding the error locations. The error values can be obtained by using either Gauss elimination or Forney's algorithm depending on the user's selection. The simulator has break points and printing-out at every step in encoding, error generating and decoding processes. The simulation software runs in MS Windows operating systems and provides a friendly and easy-to-use graphical interface ( **GUI** ). This is an ideal simulator for demonstrating the RS code encoding and decoding principle in classrooms and laboratories. (Author abstract) 4 Refs.

Descriptors: \*Simulators; Computer simulation; Personal computers; Teaching; **Graphical user interfaces** ; Codes ( **symbols** ); Encoding ( **symbols** ); Decoding; Algorithms; **Error** correction

Identifiers: Reed Solomon CODEC simulators; Systematic code generation; Self reciprocal generator polynomials; Peterson algorithms; Berlekamp algorithms; Chien search; Forney algorithms; Gauss elimination;  $K$  dimensional message space;  $N$  dimensional code space

Classification Codes:

723.5 (Computer Applications); 722.4 (Digital Computers & Systems); 901.2 (Education); 723.2 (Data Processing); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory)

723 (Computer Software); 722 (Computer Hardware); 901 (Engineering Profession); 721 (Computer Circuits & Logic Elements)

72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

27/5/20 (Item 20 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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/03368371 E.I. Monthly No: EIM9201-003371

**Title: Using enlarged target area and constant visual feedback to aid cursor pointing tasks.**

Author: Osga, Glenn A.

Corporate Source: Naval Ocean Systems Cent, San Diego, CA, USA

Conference Title: Proceedings of the Human Factors Society 35th Annual Meeting Part 1 (of 2)

Conference Location: San Francisco, CA, USA Conference Date: 19910902

Sponsor: Bay Area Chapter

E.I. Conference No.: 15389

Source: Proceedings of the Human Factors Society v 1. Publ by Human Factors Soc Inc, Santa Monica, CA, USA. p 369-373

Publication Year: 1991

CODEN: PHFSDQ ISSN: 0163-5182

Language: English

Document Type: PA; (Conference Paper) Treatment: X; (Experimental)

Journal Announcement: 9201

Abstract: The **User - Interface** Technology Branch is investigating a task paradigm for improving performance at future navy surface ship consoles. This paper presents partial results of a series of studies investigating cursor pointing and menu-selection tasks relevant to console use. A **software** aid for tactical **symbol** selection was created which uses constant visual feedback, reduced cursor travel requirements, and increased effective symbol size. This method was also applied to menu item selection. Significant user performance speed enhancement for **symbol** selection without a corresponding increase in **errors** was demonstrated for trackball and various touchtablet devices. (Author abstract) 4 Refs.

Descriptors: \*COMPUTER INTERFACES--\*Human Factors; WARSHIPS--Computer Applications; COMPUTER INTERFACES; DISPLAY DEVICES; SYSTEMS SCIENCE AND CYBERNETICS--Man Machine Systems

Identifiers: ENLARGED TARGET AREA; CONSTANT VISUAL FEEDBACK; CURSOR POINTING TASKS; MENU ITEM SELECTION

Classification Codes:

722 (Computer Hardware); 723 (Computer Software); 461 (Biotechnology); 672 (Naval Vessels); 741 (Optics & Optical Devices)

72 (COMPUTERS & DATA PROCESSING); 46 (BIOENGINEERING); 67 (MARINE ENGINEERING); 74 (OPTICAL TECHNOLOGY)

27/5/21 (Item 21 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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03354439 E.I. Monthly No: EIM9112-066123

**Title: Demonstration of enlarged target area and constant visual feedback to aid cursor pointing tasks.**

Author: Osga, Glenn A.

Corporate Source: Naval Ocean Systems Cent, San Diego, CA, USA

Conference Title: Proceedings of the Human Factors Society 35th Annual Meeting Volume 2 (of 2)

Conference Location: San Francisco, CA, USA Conference Date: 19910902

Sponsor: Human Factors Society

E.I. Conference No.: 15389

Source: Proceedings of the Human Factors Society v 2. Publ by Human Factors Soc Inc, Santa Monica, CA, USA. p 1170

Publication Year: 1991

CODEN: PHFSDQ ISSN: 0163-5182

Language: English

Document Type: PA; (Conference Paper) Treatment: X; (Experimental)

Journal Announcement: 9112

Abstract: The **User - Interface** Technology Branch of the Naval Ocean Systems Center (NOSC) is investigating a task paradigm for improving performance at future navy shipboard consoles. The objective of this demonstration is to present a **software** aid for tactical **symbol** selection which uses constant visual feedback, reduced cursor travel requirements, and increased selection-area for each symbol, without increasing displayed symbol size. The demonstration includes displays and tasks which were used in a series of studies investigating cursor pointing and menu-selection tasks (see Osga, 'Using Enlarged Target Area and Constant Visual Feedback to Aid Cursor Pointing Tasks', Proceedings of the Human Factors 35th Annual Meeting, 1991). Figure 1 shows the display layout with high and low density symbol patterns. Significant user performance speed enhancement for aided **symbol** selection without a corresponding increase in **errors** was found for trackball and various touchtablet devices. The speed of visual feedback is also shown in the demonstration. Figure 2 shows the menu layout with the selection aid. The aid resulted in a significant decrease in menu item selection errors, as compared to the same menu without the aid. This selection aid is being considered for future shipboard use, however, it can apply to numerous commercial computer applications which rely on pointing to and selection of displayed objects as a method of user-computer interaction. (Author abstract)

Descriptors: \*SHIPS--\*Human Factors; SYSTEMS SCIENCE AND CYBERNETICS--Man Machine Systems; COMPUTER SYSTEMS, DIGITAL--Military Applications; HUMAN ENGINEERING--Biofeedback

Identifiers: CURSOR POINTING TASKS; SHIPBOARD CONSOLES; USER-COMPUTER INTERACTION

Classification Codes:

671 (Naval Architecture); 912 (Industrial Engineering & Management); 722 (Computer Hardware); 723 (Computer Software)

67 (MARINE ENGINEERING); 91 (ENGINEERING MANAGEMENT); 72 (COMPUTERS & DATA PROCESSING)

27/5/22 (Item 22 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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02997078 E.I. Monthly No: EI9012138589

**Title: PC-based interactive graphical simulation and analysis package for a power plant electrical auxiliary system.**

Author: Yu, David C.; Chen, Shin-Tzo; Kalscheur, Robert J.

Corporate Source: Univ of Wisconsin, Milwaukee, WI, USA

Source: IEEE Transactions on Power Systems v 5 n 2 May 1990 p 628-634

Publication Year: 1990

CODEN: ITPSEG ISSN: 0885-8950

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9012

**Abstract:** An interactive color graphical simulation and analysis package for a power plant's electrical auxiliary system is developed and presented. The software is written in C and is designed for PC use. The objective of this package is (1) to help engineers do non-real-time and what-if types of analyses in a portable and highly user-friendly environment and (2) to minimize the growth of the company's mainframe computer and decrease computer turn-around time for auxiliary system studies. Five of the package's **modules** -- **symbol** builder, one line diagram design, load flow, motor starting, and **fault** study--are discussed. Each module can be executed individually, or they can be linked together as integrated modules. Using this package, engineers can analyze the power plant's electrical auxiliary system in a highly user-friendly manner. A description of the package, a detailed demonstration of **user interface** capabilities, and hardware requirements are provided. 2 Refs.

**Descriptors:** \*COMPUTER GRAPHICS--\*Interactive; ELECTRIC POWER PLANTS; COMPUTER SOFTWARE; COMPUTERS, PERSONAL; ELECTRIC POWER SYSTEMS

**Identifiers:** GRAPHICAL SIMULATION; MAINFRAME COMPUTER; POWER PLANT ELECTRICAL AUXILIARY SYSTEM; **USER INTERFACE**

**Classification Codes:**

723 (Computer Software); 722 (Computer Hardware); 706 (Electric Transmission & Distribution)

72 (COMPUTERS & DATA PROCESSING); 70 (ELECTRICAL ENGINEERING)

27/5/24 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01691865 ORDER NO: AADMQ-36194

**A GENERAL PURPOSE REED-SOLOMON CODEC SIMULATOR AND NEW PERIODICITY  
ALGORITHM**

Author: YE, YING  
Degree: M.ENG.  
Year: 1995  
Corporate Source/Institution: MEMORIAL UNIVERSITY OF NEWFOUNDLAND  
(CANADA) (0306)  
Adviser: SON LE-NGOC  
Source: VOLUME 37/04 of MASTERS ABSTRACTS.  
PAGE 1233. 103 PAGES  
Descriptors: COMPUTER SCIENCE  
Descriptor Codes: 0984  
ISBN: 0-612-36194-2

In most digital communication systems, if we can afford to send data below the modem transmission speed, then it is possible to achieve the system bit error rate as small as we desire by using error control codes. The Reed-Solomon codes are such error control codes, that are widely used for forward error correction due to their optimal characteristics in both Hamming distance and structure, but most of all, their capacity for correcting both random and burst errors.

Finding a suitable code for a communication channel, or trying to explain how the Reed-Solomon codes work, or comparing various decoding methods is not an easy task, hence this thesis developed a general purpose Reed-Solomon (RS) coding and decoding (codec) simulator for teaching as well as research purposes.

The RS codec simulator has two versions that can be run under Microsoft Windows and Unix operating system, respectively. A friendly and easy-to-use graphical **user interface** ( **GUI** ) is provided for PC. The user can define a **code** by selecting the **symbol** length  $m$  from 3 to 8 bits and the **error** correcting capability  $T$  of up to 20. (Abstract shortened by UMI.)

27/5/25 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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07040326 INSPEC Abstract Number: B9811-1130B-034, C9811-7410D-082

**Title: A fuzzy ARTMAP module for graphics symbols recognition**

Author(s): Murshed, N.A.; Bortolozzi, F.

Author Affiliation: LADIANN, Pontificia Univ. Catolica do Parana, Curitiba, Brazil

Conference Title: 1998 IEEE International Joint Conference on Neural Networks Proceedings. IEEE World Congress on Computational Intelligence (Cat. No.98CH36227) Part vol.3 p.1700-5 vol.3

Publisher: IEEE, New York, NY, USA

Publication Date: 1998 Country of Publication: USA 3 vol. xxxvi+2561 pp.

ISBN: 0 7803 4859 1 Material Identity Number: XX98-01609

U.S. Copyright Clearance Center Code: 0 7803 4859 1/98/\$10.00

Conference Title: Proceedings of ICNN '98 - International Conference on Neural Networks

Conference Date: 4-9 May 1998 Conference Location: Anchorage, AK, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: This paper presents a method for recognizing graphics symbols of electronic components in a database of circuit layouts. The method is based on the one-class problem approach on our ability to recognize a 2D-objects without making an explicit decomposition. To satisfy these requirements, a fuzzy ARTMAP recognition module was developed with the objective of recognizing the graphics symbols of 19 electronic components. Each fuzzy ARTMAP was trained with 2D images of graphic symbols of one component only (positive patterns only). The recognition module was then used to search for a specific component in a database of 30 images of circuit layouts. The training and test sets contained respectively, 380 images (2D images/component), and 2051 images (an average of 108 images /component). Experimental results show an average percentage error of 3.49%. (15 Refs)

Subfile: B C

Descriptors: ART neural nets; circuit diagrams; circuit layout CAD ; document image processing; fuzzy neural nets; image recognition; visual databases

Identifiers: fuzzy ARTMAP module; graphics symbols recognition; electronic components; database; circuit layouts; one-class problem; 2D object recognition; neural net

Class Codes: B1130B (Computer-aided circuit analysis and design); B6140C (Optical information, image and video signal processing); C7410D (Electronic engineering computing); C5260B (Computer vision and image processing techniques); C6130D (Document processing techniques); C6160S (Spatial and pictorial databases); C5290 (Neural computing techniques)

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27/5/26 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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05437340 INSPEC Abstract Number: B9308-1180-001, C9308-7410D-058

**Title: A symbolic z-transfer function generator for the synthesis and analysis of multirate switched-capacitor circuits**

Author(s): Martins, M.H.; Franca, J.E.; Garcao, A.S.

Author Affiliation: Dept. of Comput. Sci., Faculdade de Ciencias e Tecnologia, Lisbon, Portugal

Conference Title: 1992 IEEE International Symposium on Circuits and Systems (Cat. No.92CH3139-3) p.2573-6 vol.5

Publisher: IEEE, New York, NY, USA

Publication Date: 1992 Country of Publication: USA 6 vol. 3028 pp.

ISBN: 0 7803 0593 0

U.S. Copyright Clearance Center Code: 0 7803 0593 0/92/\$3.00

Conference Sponsor: IEEE

Conference Date: 10-13 May 1992 Conference Location: San Diego, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

**Abstract:** Presents an efficient symbolic analyzer which is capable of determining, and manipulating, the discrete-time signal flow graph (SFG) representing the operation of multirate switched-capacitor (SC) circuits and, then, extracting the corresponding symbolic z-transfer functions. The time-efficiency of the program is achieved by associating SC building blocks to single branch SFGs whose transmission factors represent the equivalent z-transfer functions. Circuit schematic edition is carried out through a dedicated, reliable user-friendly **graphical** interface in which connectivity **errors** can be easily detected and promptly corrected. A simple example is described to illustrate the operation of the **symbol** z-transfer **function** generator, including its graphical interface. (7 Refs)

Subfile: B C

**Descriptors:** circuit analysis computing; directed graphs; graphical **user interfaces** ; switched capacitor networks; transfer functions

**Identifiers:** symbolic z-transfer function generator; multirate switched-capacitor circuits; discrete-time signal flow graph; time-efficiency; transmission factors; user-friendly graphical interface; connectivity errors

**Class Codes:** B1180 (Time varying and switched networks); B1130B (Computer-aided circuit analysis and design); B0250 (Combinatorial mathematics); C7410D (Electronic engineering); C1160 (Combinatorial mathematics); C6180G (Graphical user interfaces)



27/5/29 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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2287789 NTIS Accession Number: DE2004-15006290/XAB

**Adaptive Signed Distance Transform for Curves with Guaranteed Error Bounds**

Laney, D. E. ; Duchaineau, M. A. ; Max, N. L.

Lawrence Livermore National Lab., CA.

Corp. Source Codes: 068147000

Sponsor: Department of Energy, Washington, DC.

Report No.: UCRL-JC-141577

4 Dec 2000 22p

Languages: English

Journal Announcement: USGRDR0414

Sponsored by Department of Energy, Washington, DC.

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

In this paper we present an adaptive signed distance approximation for curves in two dimensions. Our transform produces an approximation of the signed distance function of a given curve. A signed distance function defines a scalar field that specifies the minimum distance to a curve for every point in the plane, with the sign distinguishing between inside and outside. Distance functions have been used in image processing for some time. Distance functions in three dimensions are also a promising **shape representation** with interesting **applications** in geometric **design** and **surface** reconstruction. Furthermore, they are well suited to representing dynamic curves and surfaces with changing topology. However, most research relies on distance transforms which sample a distance function without regard to sampling rate requirements. In addition, most transform algorithms for surfaces do not provide error bounds. Our goal is an adaptive distance transform which provides guaranteed error bounds and enables local refinement operations to increase accuracy. The algorithm should not require preset sampling rates or other constraints. We are investigating distance functions in the plane as a precursor to a full three dimensional method. In two dimensions, the error analysis is simplified, and the behavior of the algorithm and data structures can be clearly visualized.

Descriptors: \*Algorithms; \*Hierarchies; \*Transformations (Mathematics); \*Adaptive control systems; Mathematical models; Equations; **Image** processing; Topology; Curves (Geometry); **Error** analysis; Functions (Mathematics)

Identifiers: \*Distance functions; NTISDE

Section Headings: 62F (Computers, Control, and Information Theory--Pattern Recognition and Image Processing); 72GE (Mathematical Sciences--General)

27/5/30 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1668512 NTIS Accession Number: AD-A252 917/0

**Development and Comparison of TACAMO Icon Design Formats**

(Master's thesis)

Sanders, W. D.

Naval Postgraduate School, Monterey, CA.

Corp. Source Codes: 019895000; 251450

Mar 92 118p

Languages: English Document Type: Thesis

Journal Announcement: GRAI9221

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NTIS Prices: PC A06/MF A02

Country of Publication: United States

The purpose of this study was to develop and evaluate a set of icons for the next generation message processing system for the TACAMO airborne strategic communications platform. An icon set for a proposed interface was developed through the use of an icon production method test, that is, potential users designed candidate icons that were meaningful to them. These icons were then refined for discriminability via Input from a user survey. To determine if well-developed icons with alphanumeric labels yield a significant performance advantage over the same icons without labels, an experiment involving trained users was conducted using a response time model. Subtractive logic was used to measure icon identification times as a function of whether they were or were not labeled. When speed of performance and rate of **errors** were compared, labeling of **Icons** resulted in significantly longer response times, yet did not result in fewer **errors** for the tested **icon** set. It is recommended that the unlabeled set of icons be used for TACAMO's next generation message processing system, and that the Icon production method be used more widely to involve users in interface design. TACAMO, Icons, Human-computer interaction, **Symbols**, Labels, **Software** interface design, System **Design**, Direct manipulation **interface**.

Descriptors: \*Message processing; \*Strategic communications; \*Computer programming; Airborne; **Errors**; Interactions; Interfaces; Labels; Models; Surveys; **Symbols**; Test and evaluation; Theses; Command control communications; Nuclear warfare; Man computer interface; Computer logic

Identifiers: TACAMO Communications system; Icons; NTISDODXA

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software); 45C (Communication--Common Carrier and Satellite)

27/5/32 (Item 2 from file: 144)  
DIALOG(R)File 144:Pascal  
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15887800 PASCAL No.: 03-0025672

**Modelling for the visualization of monotone data**

SARFRAZ M

Department of Information and Computer Science, King Fahd University of  
Petroleum and Minerals, KFUPM #1510, Dhahran 31261, Saudi Arabia

Journal: International journal of modelling & simulation, 2002, 22 (3)  
179-185

ISSN: 0228-6203 CODEN: IMSIEK Availability: INIST-19697;  
354000105170020060

No. of Refs.: 22 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United States

Language: English

A visually pleasing curve interpolation scheme for monotonic data is modelled. This scheme uses piecewise rational cubic functions. A family of shape parameters, in the description of the piecewise rational spline, has been constrained to preserve the shape of the data. Some useful  $O(h \sup m)$ ,  $m = 3, 4$ , error analysis results are obtained for appropriate choices of shape parameters and derivatives.

English Descriptors: Graphic display; Data visualization; Monotonicity;  
**Modeling** ; Interpolation; Rational **function** ; Cubic spline; Curved  
**shape** ; Data forms; Shape control; Implementation; Algorithm analysis;  
**Error** analysis; Computer aided design ; Computer **graphics**

French Descriptors: Affichage graphique; Visualisation donnee; Monotonie;  
Modelisation; Interpolation; Fonction rationnelle; Spline cubique; Forme  
courbe; Forme donnee; Commande forme; Implementation; Analyse algorithmique;  
Calcul erreur; Conception assistee; Infographie

Classification Codes: 001D03H; 001D03J03; 001D02B11

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27/5/33 (Item 3 from file: 144)  
DIALOG(R)File 144:Pascal  
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12955584 PASCAL No.: 97-0231359  
**Programming on an already full brain**  
FRY C

PowerScout Corp, Unknown

Journal: Communications of the ACM, 1997, 40 (4) 55-64

ISSN: 0001-0782 CODEN: CACMA2 Availability: INIST-8983

No. of Refs.: 11 Refs.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United States

Language: English

Bugs happen because people create them when they can't remember the details needed to write correct programs. To avoid to happen, the use of the computer's brain is proposed. Emacs Menus was developed to design a program that didn't make it easy to commit mistakes yet made it easy to do whatever the programmer wanted. The proper balance is achieved by augmenting a text editor with a giant context-sensitive 4D menu that gives users just-in-time help, along with the ability to insert textual code without typing and access to appropriate tools - all with minimal cognitive overhead.

English Descriptors: Programmers; Biological memory; Text editors;  
Structure editing; Iconic programming; Four dimensional; Reviews;  
Software engineering; Program debugging; Personnel; Brain; Data storage  
equipment; Codes ( **symbols** ); Computer programming languages; File  
editors; Computer software; **Errors** ; Data structures; **Graphical user**  
**interfaces** ; Computer programming

French Descriptors: Article synthese; Genie logiciel; Mise au point  
programme; Personnel; Encephale; Equipement stockage donnee; **Code** (  
**symbole** ); Langage programmation ordinateur; Editeur fichier; Logiciel;  
Erreur; Structure donnee; Interface graphique; Programmation  
(informatique)

Classification Codes: 001D02B03; 001D00B; 002B01; 001D03I02; 001D02B07B;  
001D02B02

27/5/34 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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08044942 Genuine Article#: 240EQ Number of References: 81

**Title: Ordered binary decision diagrams and minimal trellises**

Author(s): Lafferty J (REPRINT) ; Vardy A

Corporate Source: CARNEGIE MELLON UNIV, SCH COMP SCI, 5000 FORBES

AVE/PITTSBURGH//PA/15213 (REPRINT); UNIV CALIF SAN DIEGO, DEPT ELECT  
ENGN/LA JOLLA//CA/92093

Journal: IEEE TRANSACTIONS ON COMPUTERS, 1999, V48, N9 (SEP), P971-986

ISSN: 0018-9340 Publication date: 19990900

Publisher: IEEE COMPUTER SOC, 10662 LOS VAQUEROS CIRCLE, PO BOX 3014, LOS  
ALAMITOS, CA 90720-1314

Language: English Document Type: ARTICLE

Geographic Location: USA

Subfile: CC ENGI--Current Contents, Engineering, Computing & Technology

Journal Subject Category: ENGINEERING, ELECTRICAL & ELECTRONIC; COMPUTER  
SCIENCE, HARDWARE & ARCHITECTURE

**Abstract:** Ordered binary decision diagrams (OBDDs) are graph-based data structures for representing Boolean functions. They have found widespread use in **computer - aided design** and in formal verification of digital circuits. Minimal trellises are **graphical** representations of **error**-correcting codes that play a prominent role in coding theory. This paper establishes a close connection between these two graphical models, as follows. Let  $C$  be a binary code of length  $n$ , and let  $f(c)(x(1), \dots, x(n))$  be the Boolean function that takes the value 0 at  $x(1), \dots, x(n)$  if and only if  $(x(1), \dots, x(n))$  is an element of  $C$ . Given this natural one-to-one correspondence between Boolean functions and binary codes, we prove that the minimal proper trellis for a code  $C$  with minimum distance  $d > 1$  is isomorphic to the single-terminal OBDD for its Boolean indicator function  $f(c)(x(1), \dots, x(n))$ . Prior to this result, the extensive research during the past decade on binary decision diagrams-in computer engineering-and on minimal trellises-in coding theory-has been carried out independently. As outlined in this work, the realization that binary decision diagrams and minimal trellises are essentially the same data structure opens up a range of promising possibilities for transfer of ideas between these disciplines.

**Descriptors--Author Keywords:** binary decision diagrams ; trellises ; **CAD** ; coding theory ; formal verification

**Identifiers--KeyWord Plus(R):** LINEAR **BLOCK** -CODES; BOOLEAN **FUNCTIONS** ; COMPLEXITY; **REPRESENTATION**; INTRACTABILITY; MANIPULATION; LATTICES; PROFILES; BOUNDS; GRAPHS

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27/5/35 (Item 1 from file: 99)  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
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1393917 H.W. WILSON RECORD NUMBER: BAST96051019  
**Version 6.3 of schematics front-end for CAD /EDA**  
AUGMENTED TITLE: MicroSim Schematics v6.3  
Electronic Engineering v. 68 (July '96) p. 64  
DOCUMENT TYPE: Product Evaluation ISSN: 0013-4902 LANGUAGE: English  
RECORD STATUS: Corrected or revised record

ABSTRACT: A updated Windows-based schematic capture front-end has been developed for the entire range of MicroSim's **CAD** /EDA products for the PC. MicroSim Schematics v6.3 features expanded on-line help, **graphical** error traceback, a "most recently placed" parts list, and a **symbol** creation **wizard** . It provides integration enhancements for PCBoards and PLSyn.

DESCRIPTORS: **CAD** software; Printed circuits--Design; EDA software;  
Product evaluation;

27/5/36 (Item 1 from file: 56)  
DIALOG(R)File 56:Computer and Information Systems Abstracts  
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0000291808 IP ACCESSION NO: 0228347  
**Vstyle: a coding style analyzer for synthesizable Verilog**

Gelinas, Bob  
Data General Corp

PAGES: 50-57  
PUBLICATION DATE: 1996

PUBLISHER: IEEE, PISCATAWAY, NJ, (USA)

CONFERENCE:  
The 1996 5th Intenational Verilog HDL Conference, Santa Clara, CA, USA,  
26-29 Feb. 1996

DOCUMENT TYPE: Conference Paper  
RECORD TYPE: Abstract  
LANGUAGE: English  
FILE SEGMENT: Computer & Information Systems Abstracts

**ABSTRACT:**

This paper describes the implementation of Vstyle, a proprietary Verilog coding style checker implemented in yacc and c. The emphasis of this paper is not on any particular set of coding practices, but on how to craft a tool which validates that coding practices are being followed. As with any proprietary tool, the benefits must be weighed with the cost of development and support. This paper demonstrates a method of implementation which delivers the most basic style verification with a modest coding effort, and which can be extended over time to yield increasing benefit.

DESCRIPTORS: Encoding ( **symbols** ); Computer **software** ; Computer hardware;  
**Computer aided design** ; Coding **errors**  
IDENTIFIERS: Verilog coding style checker; Coding style analyzer;  
Synopsis  
SUBJ CATG: C 723.1.1, Computer Programming Languages; C 723.2, Data  
Processing; C 723, Computer Software, Data Handling and Applications; C 722  
, Computer Hardware; C 723.5, Computer Applications



Set	Items	Description
S1	591825	GUI OR GUIS OR UI OR USER()INTERFACE? OR WIMP OR WINDOW()I- CON()MENU()POINTER()INTERFACE? ?
S2	102351	(DESIGN? OR DRAW OR DRAWING OR PLAN OR PLANNING) (3W) (SURF- ACE? ? OR DISPLAY? ? OR INTERFACE? ?)
S3	391385	CAD OR COMPUTER()AIDED()DESIGN
S4	35945328	APPLICATION? ? OR PROGRAM? ? OR SOFTWARE OR API OR ROUTINE? ? OR AGENT? ? OR FUNCTION? ? OR MODULE? ? OR WIZARD? ? OR CO- DE OR CODING
S5	765228	S4 (3N) (REPRESENT? OR STAND?()) (FOR OR AS) OR SYMBOL? OR S- IGNIFY OR SIGNIFYING OR SIGNIFIE? ? OR MODEL? OR SIMULATE? ? - OR SIMULATING OR SIMULATION? ? )
S6	100939	(ERROR? ? OR FAULT? ? OR FLAW OR FLAWS OR FLAWED OR FAILUR- E? ? OR FAILED OR FAIL OR FAILING) (10N) (ICON? ? OR BUTTON? ? - OR IMAGE? ? OR SYMBOL? ? OR SIGN? ? OR GRAPHIC?)
S7	659744	S4 (10N) (SHAPE? ? OR GEOMETRIC?())OBJECT? ? OR SYMBOL? ? OR SIGN? ? OR BLOCK? ? OR RECTANGLE? ? OR SQUARE? ? OR OBLONG? ? OR TRIANGLE? ?)
S8	5065726	CONFIGURE? ? OR CONFIGURING OR CONFIGURATION? ? OR SETUP OR SET()UP
S9	74	(S1 OR S2 OR S3) (30N) (S5 OR S7) (30N) S6
S10	1144	S6 (10N) S8
S11	1	(S1 OR S2 OR S3) (30N) (S5 OR S7) (30N) S10
S12	6	S9 (30N) S8
S13	5	S12 NOT PY>2003
S14	4	S13 NOT S11
S15	3	RD (unique items)
S16	9	(S1 OR S2 OR S3) (30N) S5 (30N) S7 (30N) S6
S17	9	S16 NOT (S11 OR S15)
S18	9	S17 NOT PY>2003
S19	4	RD (unique items)
S20	68	S9 NOT (S11 OR S15 OR S19)
S21	66	S20 NOT PY>2003
S22	49	RD (unique items)
File	88:	Gale Group Business A.R.T.S. 1976-2006/Aug 17 (c) 2006 The Gale Group
File	369:	New Scientist 1994-2006/Jul W4 (c) 2006 Reed Business Information Ltd.
File	160:	Gale Group PROMT(R) 1972-1989 (c) 1999 The Gale Group
File	635:	Business Dateline(R) 1985-2006/Aug 26 (c) 2006 ProQuest Info&Learning
File	15:	ABI/Inform(R) 1971-2006/Aug 29 (c) 2006 ProQuest Info&Learning
File	16:	Gale Group PROMT(R) 1990-2006/Aug 28 (c) 2006 The Gale Group
File	9:	Business & Industry(R) Jul/1994-2006/Aug 28 (c) 2006 The Gale Group
File	13:	BAMP 2006/Aug W3 (c) 2006 The Gale Group
File	810:	Business Wire 1986-1999/Feb 28 (c) 1999 Business Wire
File	610:	Business Wire 1999-2006/Aug 29 (c) 2006 Business Wire.
File	647:	CMP Computer Fulltext 1988-2006/Oct W2 (c) 2006 CMP Media, LLC
File	98:	General Sci Abs 1984-2005/Jan (c) 2006 The HW Wilson Co.
File	148:	Gale Group Trade & Industry DB 1976-2006/Aug 29 (c) 2006 The Gale Group
File	634:	San Jose Mercury Jun 1985-2006/Aug 28 (c) 2006 San Jose Mercury News
File	275:	Gale Group Computer DB(TM) 1983-2006/Aug 28 (c) 2006 The Gale Group
File	47:	Gale Group Magazine DB(TM) 1959-2006/Aug 29

Set	Items	Description
S1	591825	GUI OR GUIS OR UI OR USER()INTERFACE? OR WIMP OR WINDOW()I- CON()MENU()POINTER()INTERFACE? ?
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S5	765228	S4 (3N) (REPRESENT? OR STAND?()) (FOR OR AS) OR SYMBOL? OR S- IGNIFY OR SIGNIFYING OR SIGNIFIE? ? OR MODEL? OR SIMULATE? ? - OR SIMULATING OR SIMULATION? ? )
S6	100939	(ERROR? ? OR FAULT? ? OR FLAW OR FLAWS OR FLAWED OR FAILUR- E? ? OR FAILED OR FAIL OR FAILING) (10N) (ICON? ? OR BUTTON? ? - OR IMAGE? ? OR SYMBOL? ? OR SIGN? ? OR GRAPHIC?)
S7	659744	S4 (10N) (SHAPE? ? OR GEOMETRIC?())OBJECT? ? OR SYMBOL? ? OR SIGN? ? OR BLOCK? ? OR RECTANGLE? ? OR SQUARE? ? OR OBLONG? ? OR TRIANGLE? ?)
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S10	1144	S6 (10N) S8
S11	1	(S1 OR S2 OR S3) (30N) (S5 OR S7) (30N) S10
S12	6	S9 (30N) S8
S13	5	S12 NOT PY>2003
S14	4	S13 NOT S11
S15	3	RD (unique items)
S16	9	(S1 OR S2 OR S3) (30N) S5 (30N) S7 (30N) S6
S17	9	S16 NOT (S11 OR S15)
S18	9	S17 NOT PY>2003
S19	4	RD (unique items)
S20	68	S9 NOT (S11 OR S15 OR S19)
S21	66	S20 NOT PY>2003
S22	49	RD (unique items)
File	88:	Gale Group Business A.R.T.S. 1976-2006/Aug 17 (c) 2006 The Gale Group
File	369:	New Scientist 1994-2006/Jul W4 (c) 2006 Reed Business Information Ltd.
File	160:	Gale Group PROMT(R) 1972-1989 (c) 1999 The Gale Group
File	635:	Business Dateline(R) 1985-2006/Aug 26 (c) 2006 ProQuest Info&Learning
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File	9:	Business & Industry(R) Jul/1994-2006/Aug 28 (c) 2006 The Gale Group
File	13:	BAMP 2006/Aug W3 (c) 2006 The Gale Group
File	810:	Business Wire 1986-1999/Feb 28 (c) 1999 Business Wire
File	610:	Business Wire 1999-2006/Aug 29 (c) 2006 Business Wire.
File	647:	CMP Computer Fulltext 1988-2006/Oct W2 (c) 2006 CMP Media, LLC
File	98:	General Sci Abs 1984-2005/Jan (c) 2006 The HW Wilson Co.
File	148:	Gale Group Trade & Industry DB 1976-2006/Aug 29 (c) 2006 The Gale Group
File	634:	San Jose Mercury Jun 1985-2006/Aug 28 (c) 2006 San Jose Mercury News
File	275:	Gale Group Computer DB(TM) 1983-2006/Aug 28 (c) 2006 The Gale Group
File	47:	Gale Group Magazine DB(TM) 1959-2006/Aug 29

(c) 2006 The Gale group  
File 75:TGG Management Contents(R) 86-2006/Aug W3  
(c) 2006 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2006/Aug 28  
(c) 2006 The Gale Group  
File 624:McGraw-Hill Publications 1985-2006/Aug 29  
(c) 2006 McGraw-Hill Co. Inc  
File 484:Periodical Abs Plustext 1986-2006/Aug W3  
(c) 2006 ProQuest  
File 613:PR Newswire 1999-2006/Aug 29  
(c) 2006 PR Newswire Association Inc  
File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 141:Readers Guide 1983-2006/Jun  
(c) 2006 The HW Wilson Co  
File 239:Mathsci 1940-2006/Oct  
(c) 2006 American Mathematical Society  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
File 696:DIALOG Telecom. Newsletters 1995-2006/Aug 28  
(c) 2006 Dialog  
File 553:Wilson Bus. Abs. 1982-2006/Jul  
(c) 2006 The HW Wilson Co  
File 621:Gale Group New Prod. Annou. (R) 1985-2006/Aug 29  
(c) 2006 The Gale Group  
File 674:Computer News Fulltext 1989-2006/Aug W1  
(c) 2006 IDG Communications  
File 20:Dialog Global Reporter 1997-2006/Aug 29  
(c) 2006 Dialog

11/3,K/1 (Item 1 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
(c) 2006 IDG Communications. All rts. reserv.

016481

**Netnotes**

Journal: Network World Page Number: 15

Publication Date: July 01, 1991

Word Count: 767 Line Count: 55

**Text:**

... on OS/2 platforms and provides a graphical user interface in which network devices are **represented** by **icons**.

The **software** is designed to provide cable **fault** detection and correction, as well as performance and **configuration** management for 3Com's LinkBuilder wiring hubs, NetBuilder bridges and routers and CS/2000 and...

15/3,K/1 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

0521061 94-75560

**Sybase announces new, intuitive Windows versions of departmental database administration products**

D Errico, Didi

Business Wire (San Francisco, CA, US) s1 p1

PUBL DATE: 940815

WORD COUNT: 1,164

DATELINE: Emeryville, CA, US

**TEXT:**

...software enables centralized database administration for local and remote Sybase SQL Server databases. Users can **set up** and reconfigure servers; add or delete databases, users, objects and devices; and enable or disable disk mirroring from one screen.

New features include a Microsoft Windows-based graphical **user interface**, intuitive icons representing key SQL Server components and "drag and drop" functionality. The benefits of...

**...Reduced System and Administration Costs**

- fewer administrators, due to central control;
- minimize costly complex syntax **errors** with easy-to-use **GUI** ;
- reduce learning curve with intuitive **icons** **representing** key DBA **functions** .

**SQL Server Manager Pricing and Availability**

Sybase is currently shipping SQL Server Manager as SA...

15/3,K/2 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2006 ProQuest Info&Learning. All rts. reserv.

01469096 01-20084

**Trio to fill OpenView gaps**

Duffy, Jim

Network World v14n28 PP: 23-24 Jul 14, 1997

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 561

...TEXT: HPUX version will ship later this month.

For those sticking with a Motif-based graphical **user interface**, Onion Peel has announced Amerigo, **software** that helps users customize and administer OpenView maps, **symbols** and objects.

To date, it has been difficult for users to customize and update multiple OpenView maps because it is a time-consuming, **error**-prone manual process that lacks synchronization and coordination of **symbols** and objects.

Amerigo helps automate this process by providing a "branching tree" interface and rulesbased templates. **Configurations** can be applied to any map on any OpenView system via point-andclick commands, Onion...

19/3,K/1 (Item 1 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
(c) 2006 The Gale Group. All rts. reserv.

03162314 SUPPLIER NUMBER: 13374440  
IBM CAD/Plus. (Cadam Inc.) (Software Review) (one of 15 evaluations of  
computer-aided design software in '2-D Drafting: Why Pay More?')  
(Evaluation)

Yares, Evan

PC Magazine, v12, n4, p279(3)

Feb 23, 1993

DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1163 LINE COUNT: 00085

... 3-D projections from orthographic views. For typical mechanical parts, this system works well. IBM CAD /Plus creates 3-D projections using a method similar to that used in manual drafting...

...a lot of time on the board should be very comfortable with the program.

IBM CAD /Plus also includes a very good dimensioning system: It's flexible enough to do both architectural and mechanical style dimensions. The program's extensive symbol library includes ANSI Y14.5M geometric tolerancing symbols, as well as a healthy assortment of architectural, drafting, electrical, HVAC, mechanical PCB, piping, and welding symbols. The program also comes with a special-purpose library of computer-room symbols. As you might guess, this particular library does not include any symbols for plug-compatible...

...this library could easily justify the cost of the program.

#### INTRUSIVE INTERFACE

Even though IBM CAD /Plus is a very good 2-D drafting program, its interface gets in the way...

...be easier to select a distance from existing geometry on the screen.

When entering a symbol without first selecting a symbol file, an error message directs you to go back through two other menus to enter the name, rather...

19/3,K/2 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2006 The Gale Group. All rts. reserv.

05547292 SUPPLIER NUMBER: 11595807 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Transputers: controllers for the 1990s..(automation of plastics industry  
using microprocessors)**

Kirkland, Carl

Plastics World, v49, n12, p62(3)

Nov, 1991

ISSN: 0032-1273

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 3146

LINE COUNT: 00250

... screen

Basic system elements include one or more transputer boards and an extremely compact, ergonomic **user interface**. The **user interface** is built around a factory-hardened IBM-AT industrial personal computer (80/386 SX, 16...

...resolution is VGA standard-640 x 480 pixels-bringing the sharp, "highrez" graphics capabilities of **computer - aided design** systems to the machine control arena. And, unlike bulky CRTS, LCDs are very thin and ...

...mounted.

Machine settings are entered on a membrane keypad with good tactile feedback. Each key **function** is **represented** with an easily understood, industry-standard **symbol**. Each screen "page" can be accessed directly without "scrolling."

Set values can either be entered...

...it possible to quickly enter small set-value changes and reduces mistakes caused by typing **errors**," Kohler explains.

Profiling is done **graphically**. Criss-crossing horizontal and vertical dotted lines can be moved around the screen with the...



22/3,K/2 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
(c) 1999 The Gale Group. All rts. reserv.

01624998

**15-WINDOW SCREEN CAPABILITY -- DEFINITION OF BLENDING RADII SURFACE CUTS  
HIGHLIGHT PROMPT (R) CAD/CAM 3-D.**

NEWS RELEASE April 9, 1987 p. 11

... graphic and special geometric radii blending capability software system has been added to PROMPT (R) **CAD /CAM** from Weber Systems, Inc., Brookfield, Wis. PROMPT **CAD /CAM** is a complete software system integrating design, drafting, and manufacturing. With 2-D, as...

... as 3-D capabilities, it provides a fast and versatile means of building complete surface **models**. The **software's graphic** feedback features result in instant identification of **errors** to facilitate editing and speeding the **CAD /CAM** process. The PROMPT **CAD /CAM** system incorporates a pre-selected 3-D definition of classic pieces of solid geometry...

... sphere, and torus for ease of programming. In addition to 3-D representations, the PROMPT **CAD /CAM 3-D** package affords the operator the opportunity to simultaneously view up to 15...

22/3,K/8 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2006 ProQuest Info&Learning. All rts. reserv.

00716546 93-65767

**CAD/CAM leader awards**

Anonymous

Machine Design v65n10 PP: 124-171 May 28, 1993

ISSN: 0024-9114 JRNL CODE: MDS

WORD COUNT: 4246

...TEXT: 5.0. Improvements have been added to nonlinearities, solid modeling, solid meshing, graphics, magnetics, and **user interfaces**. In addition, Revision 5.0 adds a more open architecture for integration with complementary software codes.

APPLICON INC.

Bravo NC combines 3D capabilities, interactive **error** checking, and **graphics** and tool visualization for multiaxis mill-drill work and surface machining. The **software** can display several **models** to represent the machine table, fixtures, clamps, and parts to be machined. Further, parts can...orientation in up to eight windows simultaneously. By accessing and machining models directly from a **CAD** database, Bravo NC eliminates the need to recreate the model or change it to suit..

22/3,K/10 (Item 6 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00538164 91-12508

**ILAN Intelligent Local Area Network Planning Software**

Harinsuta, Saran; Sullivan, William G.

Computers & Industrial Engineering v19n1-4 PP: 378-382 1990

ISSN: 0360-8352 JRNL CODE: CIE

...ABSTRACT: bus topology, supporting the Manufacturing Automation Protocol (MAP). In addition, an easy-to-use graphical **user interface** for a MAP network **simulation program** is illustrated. **Simulation** of MAP subnetworks interconnected by bridges can be performed without further programming. This software, called ILAN (intelligent local area network), features a unique **graphical user interface** with message definition facility and an **error** -checking inference engine that advises users of any instances of duplicated or omitted information. ILAN's problem-definition phase is simplified by implementing a single graphical **user interface** for all inputs. The ability to see the graphical representation of the problem as it...

22/3,K/11 (Item 7 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2006 ProQuest Info&Learning. All rts. reserv.

00493534 90-19291

**New Technology: CAD/CAM's Hardware/Software Race**

Tyler, Geoff

Management Services v34n3 PP: 32-35 Mar 1990

ISSN: 0307-6768 JRNL CODE: MNS

...ABSTRACT: data recovering, and multiple-view plotting, are expected in the spring of 1990. Other leading **CAD** -CAM contenders are Versacad, PCAD, and Cadvance. Mentor Graphics recently launched Codelink, a computer-aided ...

...Automanager is designed to increase drawing productivity by creating parametric component libraries and assemblies. Mentor **Graphics** ' Quickgrade, a statistical **fault** -finding tool, complements the firm's **fault simulation software** . It allows designers to test as the design process itself proceeds. P-Cadeda's Digital...

22/3,K/12 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

09486361 Supplier Number: 83445475 (USE FORMAT 7 FOR FULLTEXT)  
**25 year retrospective part 2 CAD/CAM/CAE: our anniversary celebration**  
**continues with highlights of computer-aided design, manufacturing, and**  
**engineering from issues past.**

LoPiccolo, Phil  
Computer Graphics World, v25, n2, p18(4)  
Feb, 2002  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1661

... non-experts to perform this kind of analysis.  
\* September 1990 Manufacturers take advantage of NC **simulation**  
**software** to **graphically** depict tool paths to detect machining **errors**  
before actual metal cutting commences. Some tools, such as Vericut from  
Deneb, are able to...

...rages over which mathematical method--NURBS or Bezier--is superior for  
describing curved surfaces. Most **CAD** packages incorporate NURBS, but a  
Bezier-based system (used to create this design) also has.

22/3,K/13 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

04919650 Supplier Number: 47232351 (USE FORMAT 7 FOR FULLTEXT)  
**Mylex storage management software extended to support both SCSI controllers and RAID systems; Global Array Manager 2.1 only storage management software to enable online storage management for both RAID and SCSI.**  
Business Wire, p03241162  
March 24, 1997  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 915

... also allows drives to be reconfigured as hot spares in the event of a drive **failure** .

GAM enables OEMs to customize the **graphical user interface ( GUI )** because it is designed around an Advanced Programmable Interface (API). To OEMs, this **software represents** the first opportunity to customize storage management software to match the look and feel of...

22/3,K/14 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

04264305 Supplier Number: 46246842 (USE FORMAT 7 FOR FULLTEXT)

**Aldec introduces updated Active-CAD**

Electronic Engineering Times, p88

March 25, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 193

As with previous versions of the product, once known as Susie- **CAD** , users can probe nets and view waveforms as they construct a schematic. Aimed primarily at FPGA design, Active- **CAD** 2.0 can be purchased with support for one or more FPGA vendors.

One new feature in Active- **CAD** 2.0 is a project manager that combines a hierarchy browser, **error** message indicator, and **icons representing** various editors and **functions** in one window. From here, users can click on an icon and invoke a design...

...offer VHDL synthesis or simulation, but several third-party tools can be invoked from the Active- **CAD** environment. Finally, the schematic package has been upgraded for Windows 95 and given an easier...

22/3,K/17 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

03512260 Supplier Number: 44918656 (USE FORMAT 7 FOR FULLTEXT)  
**SYBASE ANNOUNCES NEW, INTUITIVE WINDOWS VERSIONS OF DEPARTMENTAL DATABASE  
ADMINISTRATION PRODUCTS**

News Release, pN/A  
August 15, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1153

... Reduced system and administratioii costs  
- fewer administrators, due to central control;  
- minimize costly complex syntax **errors** with easy-to-use **GUI** ;  
- reduce learning curve with intuitive **icons** **representing** key'  
**DBA functions** .  
SQL Server Manager Pricing and Availability  
Sybase is currently shipping SQL Server Manager as 5A...



22/3,K/18 (Item 7 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

02801174 Supplier Number: 43762173 (USE FORMAT 7 FOR FULLTEXT)  
**MAJOR INNOVATION IN AUTOMATION CONTROL TRAINING, TROUBLESHOOTING AND  
PROGRAMMING ASSISTANCE INTRODUCED BY ALLEN-BRADLEY**

News Release, p1

April 6, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 601

... can also operate in a Windows" 3.1  
environment, permitting interaction with 6200 software. Its **graphic**  
**user interface** allows users to choose between different **modules**  
for **fault simulation**, troubleshooting and common procedures.  
Using the Fault Simulation Trainina option, employees can  
enhance their troubleshooting...

22/3,K/19 (Item 8 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

02136429 Supplier Number: 42772751 (USE FORMAT 7 FOR FULLTEXT)

**Teradyne Offers 'Reduced-Contact' Testers**

Electronic News (1991), p22

Feb 24, 1992

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 432

... When boundary scan components co-exist with non-scannable devices on the same board, fault **modeling** and test **program** development can be challenging. Teradyne believes that a "structured programming" approach is the best solution to this, and has introduced the ProgramGuide software package. Using an OSF/Motif **user interface**, it depicts each step of the programming process as a flow diagram.

Also new on the software front is ExpertMatch, a **fault** dictionary diagnostic package.

Teradyne has also brought out Mentor **Graphics** ExpressLink, a concurrent engineering tool that generates complete test programs with diagnostics from Mentor design...

22/3,K/20 (Item 9 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2006 The Gale Group. All rts. reserv.

01812294 Supplier Number: 42285861 (USE FORMAT 7 FOR FULLTEXT)  
**ATPG tool takes on delay-path test**  
Electronic Engineering Times, p66  
August 12, 1991  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 545

... for any commercial tool. Also new are advanced automatic  
test-program generation diagnostics and a **graphical user interface** (  
**GUI** ).

The significant speedup in both ATPG and **fault** simulation stems from  
a new fault simulator that combines parallel processing, compiled **code**  
**simulation** , and other proprietary techniques for fault pruning, ordering  
and manipulation.

Version 4.0, however, may...

22/3,K/22 (Item 1 from file: 13)  
DIALOG(R)File 13:BAMP  
(c) 2006 The Gale Group. All rts. reserv.

00614887 Supplier Number: 24662709 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Software links CAD models to CMM**

(Trim Systems uses CimStation Inspection 3-D graphics-simulation and CMM-programming software from Adept Technologies to integrate CAD data into inspection process; ability to do inspections in-house is one benefit)

Quality, v 38, n 7, p 46

June 1999

DOCUMENT TYPE: Journal; Case study ISSN: 0360-9936 (United States)

LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 741

**ABSTRACT:**

...graphics-simulation and coordinate-measuring machine (CMM)-programming software that enabled that company to link **CAD models** to CMM. The **software** acts as a "virtual CMM," empowering programming to occur as if the operator was sitting...

...and edited, users visualize the CMM, probes parts, and fixtures in real-time 3-D **graphics**. CimStation Inspection also allows programmers to find and correct program **errors** before programs are downloaded to the shop floor, liberating CMMS for production. Another benefit is...

...expedited the inspection process by permitting users to receive data directly from the Pro/Engineer **CAD** software at the start of design. Moreover, the software offers the ability to perform the...

22/3,K/23 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2006 CMP Media, LLC. All rts. reserv.

01085651 CMP ACCESSION NUMBER: EET19960325S0073

**Aldec introduces updated Active-CAD**

ELECTRONIC ENGINEERING TIMES, 1996, n 894, PG88

PUBLICATION DATE: 960325

JOURNAL CODE: EET LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: Design - Design Automation & Test

WORD COUNT: 192

... schematic and simulation tool.

As with previous versions of the product, once known as Susie- **CAD** , users can probe nets and view waveforms as they construct a schematic. Aimed primarily at FPGA design, Active- **CAD** 2.0 can be purchased with support for one or more FPGA vendors.

One new feature in Active- **CAD** 2.0 is a project manager that combines a hierarchy browser, **error** message indicator, and **icons representing** various editors and **functions** in one window. From here, users can click on an icon and invoke a design...

22/3,K/24 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2006 CMP Media, LLC. All rts. reserv.

01079520 CMP ACCESSION NUMBER: EET19960122S0050  
**Simulation of wireless system flies high**  
Frank S. Eory, Senior Electronic , Design Engineer, Satellite  
Communications Division, Motorola Inc., Chandler, Ariz.  
ELECTRONIC ENGINEERING TIMES, 1996, n 885, PG52  
PUBLICATION DATE: 960122  
JOURNAL CODE: EET LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Special Report - EDA Tools  
WORD COUNT: 1731

... synthesis, a combination of SPW and Verilog-XL for simulation and  
Motorola's Open-architecture **CAD** System (OACS) tool kit for physical  
design.

Evaluating the process

After completing the development project...

...of the RF components and/or the measurement technique itself.  
Measurements of the strictly digital **functions** agreed cycle-for-cycle  
with simulations. Actual **symbol** and bit- **error** rates likewise showed  
excellent agreement with simulated results, to within 0.2dB in the worst  
...

22/3,K/28 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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07755840 SUPPLIER NUMBER: 16719172 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Cabletron unveils network management partners program and product catalog;  
provides the highest level of third party applications and platform  
integration of any vendor.**

Business Wire, p03271149

March 27, 1995

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 715 LINE COUNT: 00066

... capabilities. Cabletron offers three levels of integration options for SPECTRUM including: integration with SPECTRUM's **Graphical User Interface ( GUI )**, integration with intelligent **fault** isolation and alarm reduction, and tight integration allowing for data sharing between the **application** and SPECTRUM's **modeling** database.

"The importance of tightly integrating the management platform with the applications should not be...

22/3,K/30 (Item 5 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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06815022 SUPPLIER NUMBER: 14445093 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Gas-controller trainer employs SCADA-linked simulation - Part 2.**  
McCracken Grant E.  
Pipe Line Industry, v76, n7, p51(3)  
July, 1993  
ISSN: 0032-0145 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 2147 LINE COUNT: 00180

... the SCADA system. Examples include the following:

- \* Line ruptures
- \* Control system failures
- \* Measurement or communications **failures**
- \* Opening/closing manual block valves
- \* Abnormal/unscheduled flow changes.

**Graphic user interface** . In order to monitor the details of a training session, control its progression and access...

...s operation. This comprehensive view of the simulation-generated data is provided by a graphic **user interface** ( **GUI** ) designed specifically for the pipe line **simulation software** . With **GUI** , the user has a complete, detailed view of the simulation both interactively during the training...



22/3,K/31 (Item 6 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2006 The Gale Group. All rts. reserv.

06223643 SUPPLIER NUMBER: 14403541 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Churning out the work. (computer hardware and peripherals) (Buyers Guide)**  
Computer-Aided Engineering, v11, n12, p68(13)  
Dec, 1992  
DOCUMENT TYPE: Buyers Guide ISSN: 0733-3536 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 12186 LINE COUNT: 01069

... Ceram Inc,, 719/540-8500; Fax: 719/540-8855.

XP Boosters

Packages include an XP **simulation** accelerator and the **software** to interface to EDA simulators. XP provides speed for demanding logic verification and **fault simulation applications**. Zycad, 800/243-7286; Fax: 510/623-4550.

**Graphics** Boards/Drivers

5086 Graphics Processor

Provides powerful graphics functions in 2D/3D interactive **design**, complex **surface** definition, and shaded images. IBM Corp., 914/642-3000.

Alpha/Spectra Series

Offers Hitachi ACRTC...

22/3,K/32 (Item 7 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2006 The Gale Group. All rts. reserv.

05586819 SUPPLIER NUMBER: 11975806 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Manufacturing: companies aim for more factory automation. (Engineering Software)(includes a related article on trends in the computer-aided manufacturing industry)**

Beckert, Beverly A.  
Computer-Aided Engineering, v10, n12, p24(2)  
Dec, 1991

ISSN: 0733-3536 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1760 LINE COUNT: 00148

... language-based solutions to interactive graphics systems that allow users to build part geometry with **Cad** -like commands or import it from a **CAD** system or database. The programmer then graphically creates the tool path on top of the part geometry. This approach simplifies and speeds programming and reduces **errors** . What's more, some interactive **graphics** systems simulate tool motion in near real time to further check the part **program** . **Simulation** is especially important in complex machining because it helps programmers visualize the part and tool...

22/3,K/33. (Item 8 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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04906216 SUPPLIER NUMBER: 09789653 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Manufacturing: CAM systems shake up the shop floor. (computer-aided manufacturing)**  
Beckert, Beverly A.  
Computer-Aided Engineering, v9, n12, p34(2)  
Dec, 1990  
ISSN: 0733-3536 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1340 LINE COUNT: 00110

... language-based solutions to interactive graphics systems that allow users to build part geoemtry with **CAD** -like commands or import it from a **CAD** system of database. The programmer then graphically creates the tool path on top of the part geometry. Such an approach simplified and speeds programming as well as reduced **errors** .

What's more, some interactive **graphics** systems simulate tool motion in near real time to further check the part **program** . **Simulation** is especially important in complex machining because it helps the programmer visualize the part and...

22/3,K/35 (Item 10 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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02486234 SUPPLIER NUMBER: 04007309 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**CIM - a competitive edge. (computer integrated manufacturing)**  
Koelsch, James R.  
Production Engineering, v32, p28(6)  
Nov, 1985  
ISSN: 0146-1737 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 2236 LINE COUNT: 00176

... end up producing scrap," adds Schryver. And, with computer power at their disposal, engineers can **program** the machines to cut complex **shapes** and operate in three dimensions, both faster and with more accuracy.

**CAD** and CAM systems also allow engineers to see and analyze parts in motion and to simulate the manufacturing process. Computer **graphics** aid engineers in catching design **flaws** before production. It is expensive to go through a whole set of tooling and the...

22/3,K/36 (Item 11 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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02325981 SUPPLIER NUMBER: 03636494 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Solid modeling catches on. (for CAD-CAM)**

Krouse, John K.

Machine Design, v57, p60(5)

Feb 7, 1985

ISSN: 0024-9114

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1507

LINE COUNT: 00128

... database can tie together so many different functions, solid modeling is considered the key to **CAD /CAM** integration and has been called "the wave of the future" in computer **graphics** . Despite the significance of the technology, however, solid modeling has **failed** to gain widespread use in industry, mainly because the models were so difficult to build and process in the computer. Recent advances in **modeling software** and computer hardware overcome much of these early difficulties to bring solid modeling from research departments to routine production work.

A slow start

In the early 1970s, the first solid **modeling programs** were just being developed, primarily in universities such as Rochester, Berlin, Carnegie-Mellon, Hokkaido, and...

22/3,K/37 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2006 The Gale Group. All rts. reserv.

01672750 SUPPLIER NUMBER: 15035277 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**SQL Studio Version 1.0. (Stanford Technology Group Inc.'s database  
application development software) (Software Review) (Evaluation)**  
Roti, Steve  
DBMS, v7, n3, p28(2)  
March, 1994  
DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1029 LINE COUNT: 00078

... database objects, but all have an icon bar, an identification  
section, and a PL/SQL **block** area. You can edit PL/SQL **code** with all the  
usual **GUI** copying and pasting operations, as well as exporting and  
importing to and from text files...

...SQL block, with a click of the mouse. Compiling is as easy as pressing a  
**button** , and you can conveniently view and correct compilation **errors** ,  
in the Show Errors window.

For navigating among many database objects owned by different users

...

22/3,K/40 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01102583 SUPPLIER NUMBER: 03333611 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**More on computer aided drafting. (The Computer Scientist)**  
Mims, Forrest M., III  
Computers & Electronics, v22, p74(5)  
July, 1984  
ISSN: 0745-1458 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 3484 LINE COUNT: 00255

... for a smaller, rounder transistor, I simply inserted a revised  
scale instruction in the transistor **symbol** -drawing **routine** given in  
Fig. 8.

Incidentally, even a single **error** will wreak havoc with a plotted  
**symbol** ! Careful planning and a dose of patience will pay off in faster  
symbol programming.

Though...

...plumbing diagrams, and anything else the plotter can be programmed to  
draw. For a basic **CAD** system that simply transforms rough sketches into  
finished drawings, your major programming hurdle will be...

22/3,K/42 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2006 The Gale Group. All rts. reserv.

04566385 Supplier Number: 57838590 (USE FORMAT 7 FOR FULLTEXT)  
**CAD/IQ CHECKS GEOMETRY QUALITY.(International TechneGroup Inc CAD  
software)(Product Information)**  
Computer Aided Design Report, n4, pNA  
April, 1998  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 1040

... edges needed to fill in the gaps between surfaces.  
Even if the only purpose of **CAD** models is to validate fit and appearance or to make drawings or colorful **images**, the types of **errors** identified by ITI may cause problems. Poor model quality may prevent additional features from being from regenerating after a change is made. Such stubbornness on the part of solid-- **modeling software** is often blamed on inadequacies of the program when in fact it may be caused by a bad set of data.

And if **CAD** geometry will be used for finite element analysis or translated to another CAD system via...



22/3,K/47 (Item 1 from file: 239)  
DIALOG(R)File 239:Mathsci  
(c) 2006 American Mathematical Society. All rts. reserv.

03030392 MR 2000f#94055

**Ordered binary decision diagrams and minimal trellises.**

Lafferty, John (School of Computer Science, Carnegie-Mellon University,  
Pittsburgh, Pennsylvania, 15213)

Vardy, Alexander (Department of Electrical Engineering, University of  
California, San Diego, La Jolla, California, 92093)

Corporate Source Codes: 1-CMU-SC; 1-UCSD-EL

IEEE Trans. Comput.

Institute of Electrical and Electronics Engineers. Transactions on  
Computers, 1999, 48, no. 9, 971--986. ISSN: 0018-9340 CODEN:  
ITCOB4

Language: English Summary Language: English

Subfile: MR (Mathematical Reviews) AMS

Abstract Length: MEDIUM (23 lines)

Reviewer: Summary

Summary: ``Ordered binary decision diagrams (OBDDs) are graph-based data structures for **representing** Boolean **functions**. They have found widespread use in **computer - aided design** and in formal verification of digital circuits. Minimal trellises are **graphical** representations of **error** -correcting codes that play a prominent role in coding theory. This paper establishes a close...

22/3,K/48 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2006 The Gale Group. All rts. reserv.

01004522 Supplier Number: 39543333 (USE FORMAT 7 FOR FULLTEXT)  
**MENTOR GRAPHICS ANNOUNCES QUICKSIM FAMILY OF TOOLS FOR ENHANCED CAE DESIGN  
SIMULATION**

PR Newswire, pN/A  
June 10, 1985  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 828

... by the simulator.  
QuickFault FOR FAULT SIMULATION  
QuickFault's concurrent algorithm provides high-speed, efficient  
**fault** analysis and a unique **graphical** display of cumulative **fault**  
detection, undetected **faults** and **fault** blockages. QuickFault is  
easily accessible through the same **user - interface** as all QUICKSIM  
**functions** , and supports all **simulation**  
and library models. QuickFault  
provides a unique form of fault simulation acceleration across the  
DOMAIN...

22/3,K/49 (Item 1 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
(c) 2006 IDG Communications. All rts. reserv.

060597

**Trio to fill OpenView gaps**

Byline: Jim Duffy

Journal: Network World Page Number: 23

Publication Date: July 14, 1997

Word Count: 561 Line Count: 55

**Text:**

...UX version will ship later this month.

For those sticking with a Motif-based graphical **user interface**,  
Onion Peel has announced Amerigo, **software** that helps users customize and  
administer OpenView maps, **symbols** and objects.

To date, it has been difficult for users to customize and update  
multiple OpenView maps because it is a time-consuming, **error**-prone manual  
process that lacks synchronization and coordination of **symbols** and  
objects.

Amerigo helps automate this process by providing a ``branching tree''  
interface and rules...

Set	Items	Description
S1	1354	GUI OR GUI5 OR UI OR USER()INTERFACE? OR WIMP OR WINDOW()I- CON()MENU()POINTER()INTERFACE? ?
S2	141	(DESIGN? OR DRAW OR DRAWING OR PLAN OR PLANNING) (3W) (SURF- ACE? ? OR DISPLAY? ? OR INTERFACE? ?)
S3	1727	CAD OR COMPUTER()AIDED()DESIGN
S4	30653	APPLICATION? ? OR PROGRAM? ? OR SOFTWARE OR API OR ROUTINE? ? OR AGENT? ? OR FUNCTION? ? OR MODULE? ? OR WIZARD? ? OR CO- DE OR CODING
S5	832	S4 (3N) (REPRESENT? OR STAND?()) (FOR OR AS) OR SYMBOL? OR S- IGNIFY OR SIGNIFYING OR SIGNIFIE? ? OR MODEL? )
S6	1940	ERROR? ? OR FAULT? ? OR FLAW OR FLAWS OR FLAWED OR FAILURE? ? OR FAILED OR FAIL OR FAILING
S7	7937	ICON? ? OR BUTTON? ? OR IMAGE? ? OR SYMBOL? ? OR SIGN? ? OR GRAPHIC?
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S9	0	(S1 OR S2 OR S3) AND S5 AND S8
S10	2311	SHAPE? ? OR GEOMETRIC?()OBJECT? ? OR SYMBOL? ? OR SIGN? ? - OR BLOCK? ? OR RECTANGLE? ? OR SQUARE? ? OR OBLONG? ? OR TRIA- NGLE? ?
S11	347	S10 (10N) S4
S12	0	(S1 OR S2 OR S3) AND S11 AND S8

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The Khoros **software** development environment for image and signalprocessing - group of 5 »

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K Konstantinides, JR Rasure - Image Processing, IEEE Transactions on, 1994 - [ieeexplore.ieee.org](#)  
 ... KHOROS OVERVIEW Khoros is an integrated **software** development environment ... D. **Program**  
 Hierarchy ... format (VIFF) includes information for an **application** to properly ...  
[Cited by 85](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

**Software CAD: A Revolutionary Approach** - group of 8 »

RJA BUHR, GM KARAM, CJ HAYES - [ieeexplore.ieee.org](#)  
 ... subsystems and interfaces determined by the **application**, and 3 ... the structuring of  
 the active parts of **program** under design ... in the center of the **software** process. ...  
[Cited by 17](#) - [Related Articles](#) - [Web Search](#)

Real-world interaction using the FieldMouse - group of 14 »

I Siio, T Masui, K Fukuchi - ... of the 12th annual ACM symposium on User interface **software** ..., 1999 - [portal.acm.org](#)  
 ... and speech data used in the Living Books **software** are linked ... on 2D surfaces, there  
 are many **application** where precision ... the user usually has to **program** the PDA ...  
[Cited by 36](#) - [Related Articles](#) - [Web Search](#)

[BOOK] **GUI Bloopers: Don'ts and Do's for Software Developers and Web Designers** - group of 5 »

J Johnson - 2000 - [books.google.com](#)  
 ... in the real world, we need to **program** them into ... There is little value in warning  
**software** developers away from very rare or **application**-specific mistakes ...  
[Cited by 50](#) - [Related Articles](#) - [Web Search](#) - [Library Search](#)

Automatic scene separation and tree structure **GUI** for video editing

H Ueda, T Miyatake - Proceedings of the fourth ACM international conference on ..., 1997 - [portal.acm.org](#)  
 ... to try many fine tuning of our **program** to achieve ... total **error** rate of scene separation  
 is less than 3 ... We developed our **software** on the standard hardware and ...  
[Cited by 8](#) - [Related Articles](#) - [Web Search](#)

Double-fading support- a training approach to complex **software** systems - group of 3 »

D Leutner - Journal of Computer Assisted Learning, 2000 - Blackwell Synergy  
 ... would be necessary for solving **application** problems most ... avoid them (procedural phase:  
**error** warning). ... possibilities of reducing the **software's** complexity have ...  
[Cited by 5](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Java power tools: model **software** for teaching object-oriented design - group of 8 »

R Rasala, J Raab, VK Proulx - Proceedings of the thirty-second SIGCSE technical symposium ..., 2001 - [portal.acm.org](#)  
 ... that should be highlighted in courses on **software** design. ... it is not clear what the  
**application program** will do ... 2.7 Dialogs and **Error** Handling The JPT has three ...  
[Cited by 25](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Programming by analogous examples - group of 2 »

A Repenning, C Perrone - Communications of the ACM, 2000 - portal.acm.org

... user programmers to large distributed teams of **software** developers ... But transferring rules from one **application** scenario to ... goes through to reuse a **program** or a ...

[Cited by 24](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

An overview of portable GUI software

W Guthrie - ACM SIGCHI Bulletin, 1995 - portal.acm.org

... r) under that **application**. ... to purchase (or learn how to use) other kits to build

**GUI software**. ... With one of these products, one would **program** using the emulated ...

[Cited by 2](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Using task analysis to improve usability of fatigue modelling software - group of 6 »

M Paradowski, A Fletcher - International Journal of Human-Computer Studies, 2004 - Elsevier

... problem report sheet, user **error** and frustration ... through improved consistency, the

**application** learning time ... of a popular fatigue modelling **software program**. ...

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